

# CC 3800-1

**Crawler Crane  
715 USt Capacity**

**DEMAG**  
TADANO GROUP

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Track



Counterweight + central ballast (ZB)



Superlift counterweight



Central ballast



Superlift radius



Possible load of hook block



Weight of hook block



Load radius



Main boom



Fly jib



Main boom angle



Fly jib angle



Wind speed in ft/s (feet per second)



Track shoe width



S: heavy

L: light

H/HA: Main boom

HI: Luffing jib

MA: Mast

W: Luffing fly jib

F: Fixed fly jib

SL: Superlift

V: Vessellift

SFSL: Variation of SWSL: all radii will be reached by adjusting the main boom angle (luffing fly jib 15° offset to main boom permanently)

- ▶ 715 USt at 39.4 ft radius
- ▶ Load moment of 66.196 ft-kips
- ▶ Fall protection as standard
- ▶ Erection of main boom 374.0 ft with 39.4 ft LF and hook block mounted: without superlift mast and without assist crane
- ▶ Erection of wind turbines up to **557.8 ft** hub height with superlift, up to 361 ft hub height without superlift
- ▶ Best in class ergonomics for operator
- ▶ Suitable for worldwide operation





### Working speeds (infinitely variable)

| Mechanism       |         | Rope ø | Speeds <sup>1)</sup> | Single line pull | Length of hoist rope |
|-----------------|---------|--------|----------------------|------------------|----------------------|
| Hoist I+II      | (H1+H2) | 28 mm  | max. 426.5 ft / min  | 40.500 lbf       | 3281 ft              |
| Hoist III       | (H3)    | 28 mm  | max. 262.5 ft / min  | 40.500 lbf       | 2133 ft              |
| Boom derricking | (W2)    | 28 mm  | max. 426.5 ft / min  |                  |                      |
| Boom hoist      | (E)     | 28 mm  | max. 410.1 ft / min  |                  |                      |
| Jib luffing     | (W1)    | 28 mm  | max. 393.7 ft / min  |                  |                      |
| Slewing (rpm)   |         |        | 0-1                  |                  |                      |

<sup>1)</sup> top layer

### Carrier performance

|              |               |
|--------------|---------------|
| Travel speed | max. 0.68 mph |
|--------------|---------------|

### Hook block system

| Type    | Possible load             | Number of sheaves | Number of lines  | Weight                                                                    | „D“                              |
|---------|---------------------------|-------------------|------------------|---------------------------------------------------------------------------|----------------------------------|
| 2 x 325 | 1433,000 lb<br>838,000 lb | 4 x 5<br>1 x 10   | 2 x 20<br>1 x 21 | 22,270 lb – 29,110 lb<br>16,100 lb – 24,920 lb<br>(8,380 lb – 24,260 lb*) | 18.4 ft<br>18.4 ft<br>(16.1 ft*) |
| 2 x 190 | 838,000 lb                | 2 x 5             | 2 x 11           | 16,100 lb – 24,920 lb<br>(8,380 lb – 24,260 lb*)                          | 19.4 ft<br>(16.1 ft*)            |
|         | 419,000 lb                | 1 x 5             | 1 x 11           | 13,670 lb<br>(5,950 lb – 10,580 lb*)                                      | 19.4 ft<br>(17.1 ft*)            |

\* with optional equipment 882,000 lb or 441,000 lb hook

### Double hook block

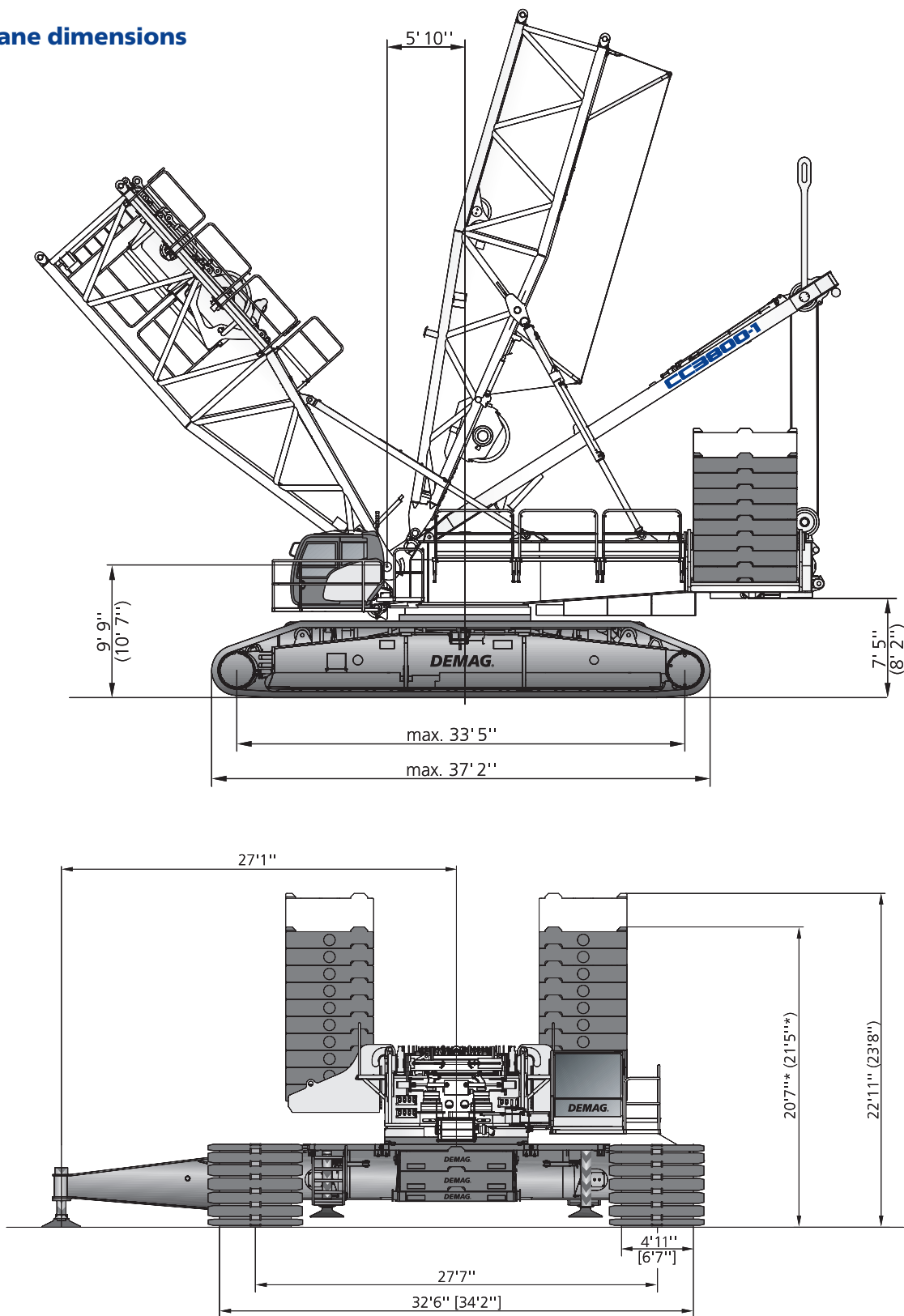
| Type   | Possible load | Number of sheaves | Number of lines | Weight               | „D“     |
|--------|---------------|-------------------|-----------------|----------------------|---------|
| 2 x 90 | 392,500 lb    | 2 x 2             | 2 x 5           | 5,070 lb – 19,620 lb | 14.8 ft |

### Hook block

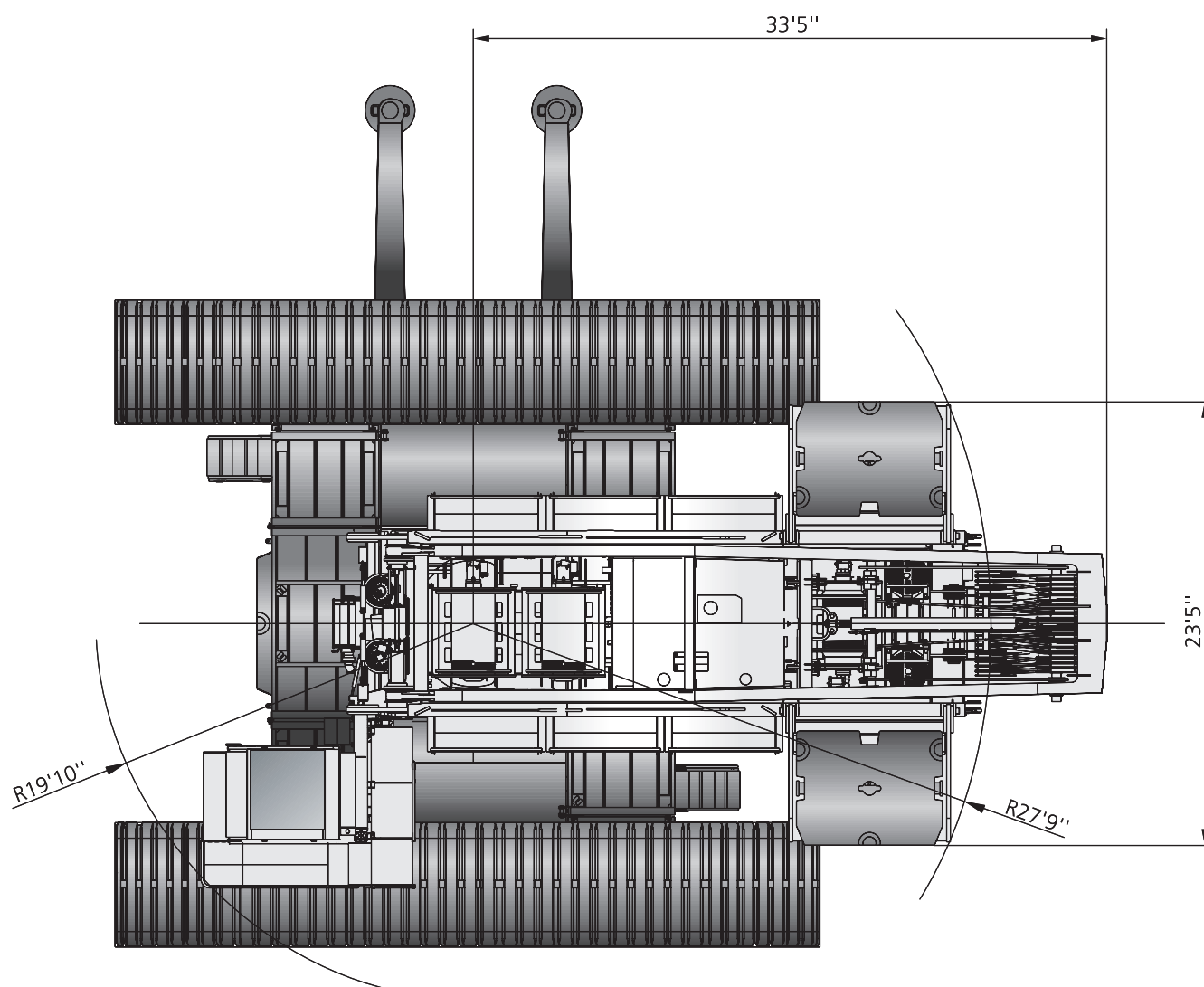
| Type | Possible load | Number of sheaves | Number of lines | Weight               | „D“     |
|------|---------------|-------------------|-----------------|----------------------|---------|
| 125  | 272,300 lb    | 1 x 3             | 1 x 7           | 4,000 lb – 11,250 lb | 15.1 ft |
| 54   | 119,000 lb    | 1 x 1             | 1 x 3           | 2,430 lb – 7,280 lb  | 14.8 ft |
| 18*  | 39,700 lb     | –                 | 1 x 1           | 2,430 lb             | 12.8 ft |

\* Single line hook

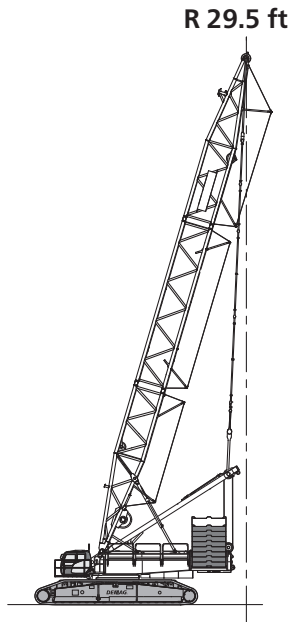
Basic crane dimensions



( ) with optional quick-connection    [ ] Option    \* Optional cast iron



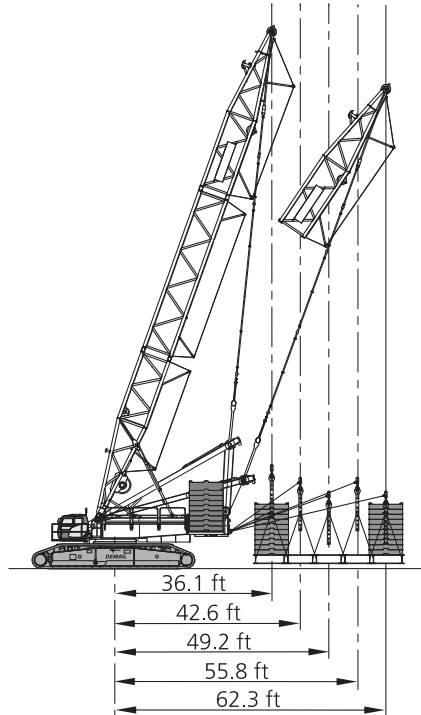
**SL 0 lb 29.5 ft**



**SL-Mast 118.1 ft**

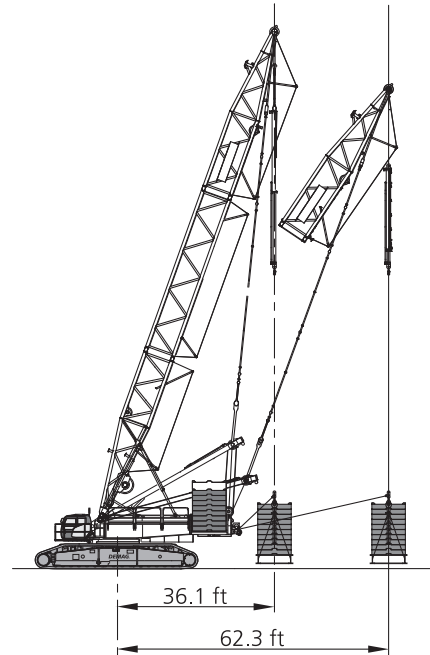
**Standard-SL**

R 37.7 50.8 64 ft  
44.3 57.4



**Vario-SL 36.1-62.3 ft**

R 37.7 ft - 64 ft

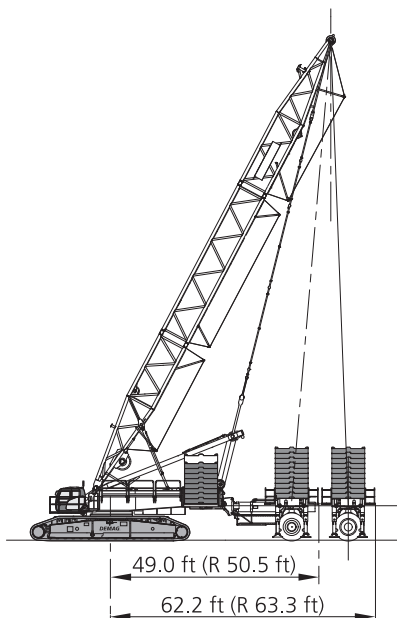


**SL-Mast 118.1 ft**

**SL Carrier**

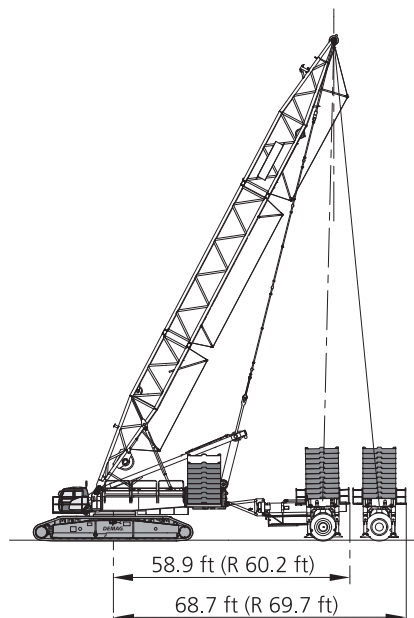
**42.7-55.8 ft**

R 51.7 ft



**49.2-62.3 ft**

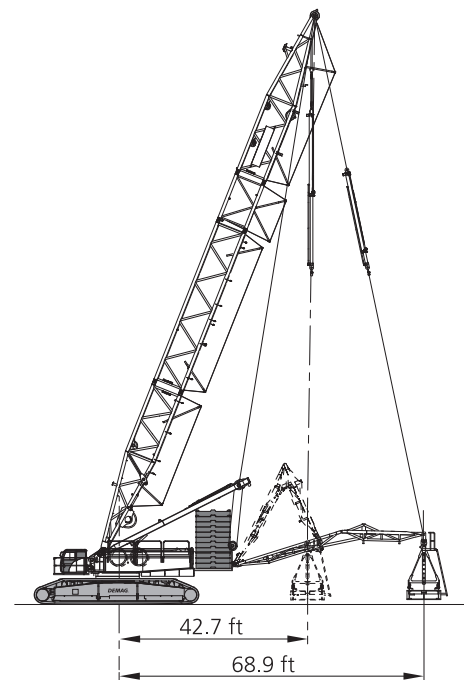
R 51.7 ft



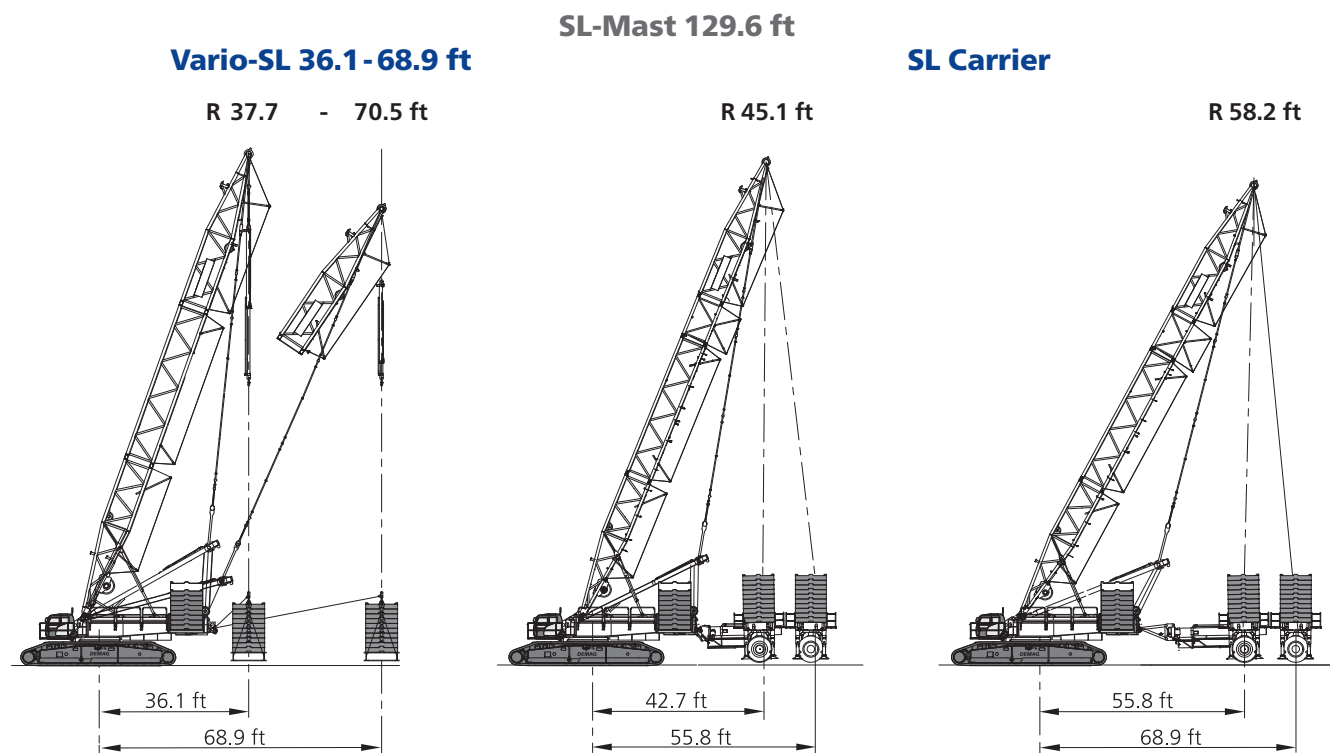
**SL-Mast 129.6 ft & 137.8 ft**

**Flex Frame 42.7-68.9 ft**

R 45.1 ft



Alternatively, the telescope connector may be used in combination with the Superlift Tray



Alternatively, the telescope connector may be used in combination with the Superlift Tray

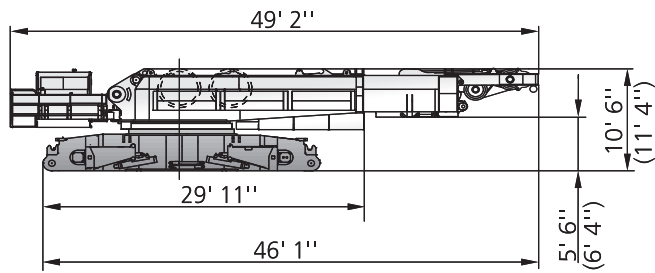
## Specifications

### Weights

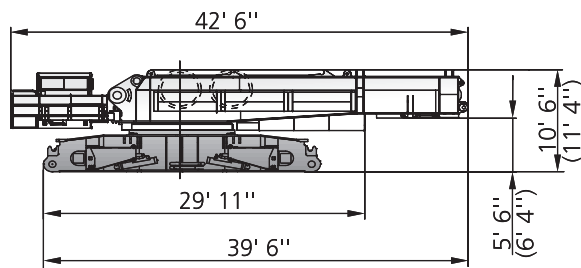
|                                                                          |                    |
|--------------------------------------------------------------------------|--------------------|
| Total weight incl. 363,800 lb counterweight, 78.7 ft boom and hook block | approx. 860,000 lb |
| Max. counterweight                                                       | 452,000 lb         |
| Max. central ballast                                                     | 110,200 lb         |

# Specifications

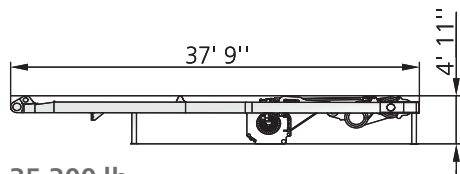
**CC 3800-1**



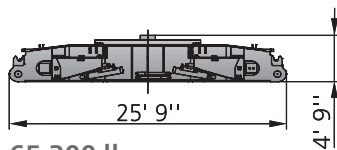
**176,400 lb**



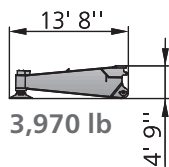
**141,600 lb**



**35,300 lb**

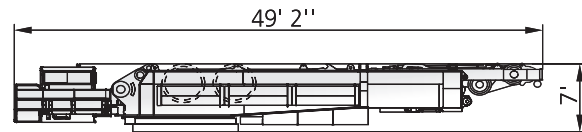


**65,300 lb**

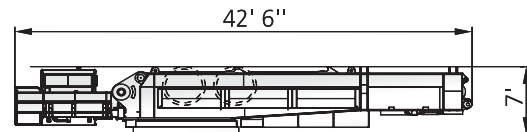


**3,970 lb**

2 additional side jacks optional

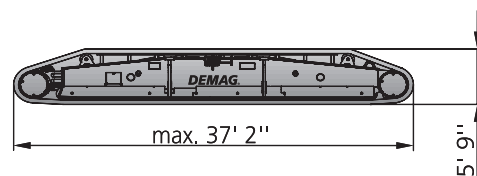


**122,200 lb**

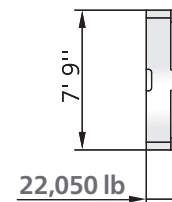


**87,300 lb**

Without winches H1 + H2 (14,110 lb each)



|        | Duo              | Quadro           |
|--------|------------------|------------------|
| 4.9 ft | <b>82,250 lb</b> | <b>89,700 lb</b> |
| 6.6 ft | <b>86,000 lb</b> | <b>93,500 lb</b> |



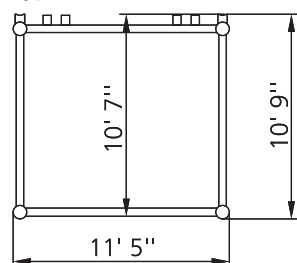
**22,050 lb**  
**16,540 lb**

**1' 4" (1' 3")\***

\* Optional cast iron

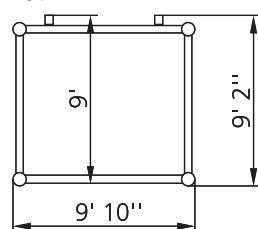
## Boom Booster

Type 3330A



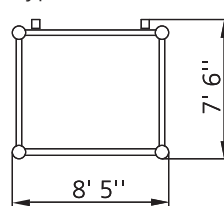
## Main Boom (HA)

Type 2824A



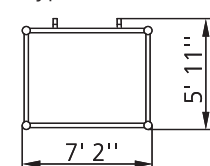
## Jib (HI)

Type 2420A



## LF

Type 2016A



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## Erection / lowering of the CC 3800-1 boom systems to the ground

| Boom combination                                                                                               | Fly jib (ft)  | Main boom (ft)                                                                      |       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|-------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                                                                                                |               | 78.7                                                                                | 98.4  | 118.1       | 137.8 | 157.5 | 177.2 | 196.9 | 216.5 | 236.2 | 255.9 | 275.6 | 295.3 | 315.0 | 334.6 | 354.3 | 374.0 |
| SH_1                                                                                                           |               | X                                                                                   | X     | X           | X     | X     | X     | X     | X     | X     | [X]   | [X]   | [X]   | [X]   | –     | –     | –     |
| LH_1                                                                                                           |               | –                                                                                   | –     | X           | X     | X     | X     | X     | X     | X     | X     | X     | [X]   | [X]   | [X]   | [X]   | [X]   |
|                                                                                                                |               | 118.1                                                                               | 128.0 | 137.8-246.1 | 255.9 | 265.8 | 275.6 | 285.5 | 295.3 | 305.1 | 315.0 | 324.8 | 334.6 | 344.5 | 354.3 | 364.2 | 374.0 |
| LH_5                                                                                                           |               | X                                                                                   | X     | X           | [X]   | [X]   | [X]   | [X]   | [X]   | [X]   | [X]   | [X]   | [X]   | [X]   | [X]   | [X]   | [X]   |
|                                                                                                                |               | 78.7                                                                                | 98.4  | 118.1       | 137.8 | 157.5 | 177.2 | 196.9 | 216.5 | 236.2 | 255.9 | 275.6 | 295.3 | 315.0 | 334.6 | 354.3 | 374.0 |
| SW_1<br>85°<br>               | 78.7 - 118.1  | –                                                                                   | X     | X           | X     | X     | [X]   | [X]   | [X]   | –     | –     | –     | –     | –     | –     | –     | –     |
|                                                                                                                | 137.8 - 157.5 | –                                                                                   | X     | X           | X     | X     | X     | [X]   | [X]   | [X]   | –     | –     | –     | –     | –     | –     | –     |
|                                                                                                                | 177.2 - 216.5 | –                                                                                   | X     | X           | X     | X     | [X]   | [X]   | [X]   | [X]   | –     | –     | –     | –     | –     | –     | –     |
|                                                                                                                | 236.2 - 295.3 | –                                                                                   | X     | X           | X     | X     | [X]   | [X]   | [X]   | –     | –     | –     | –     | –     | –     | –     | –     |
|                                                                                                                | 315.0         | –                                                                                   | X     | X           | X     | [X]   | [X]   | [X]   | [X]   | –     | –     | –     | –     | –     | –     | –     | –     |
| SH+LF_1<br>15°, 20°, 30°<br>  | 39.4          | –                                                                                   | X     | X           | X     | X     | X     | X     | X     | X     | [X]   | [X]   | [X]   | [X]   | –     | –     | –     |
|                                                                                                                | 78.7          | –                                                                                   | X     | X           | X     | X     | X     | X     | X     | [X]   | [X]   | [X]   | [X]   | –     | –     | –     | –     |
|                                                                                                                | 118.1         | –                                                                                   | X     | X           | X     | X     | X     | X     | X     | [X]   | [X]   | [X]   | –     | –     | –     | –     | –     |
| LH+LF_1<br>15°, 20°, 30°<br> | 39.4          | –                                                                                   | –     | –           | –     | X     | X     | X     | X     | X     | X     | X     | [X]   | [X]   | [X]   | [X]   | [X]   |
|                                                                                                                | 78.7          | –                                                                                   | –     | –           | –     | X     | X     | X     | X     | X     | X     | [X]   | [X]   | [X]   | [X]   | [X]   | –     |
|                                                                                                                | 118.1         | –                                                                                   | –     | –           | –     | X     | X     | X     | X     | X     | [X]   | [X]   | [X]   | [X]   | [X]   | –     | –     |
|                                                                                                                |               | 236.2 246.1 255.9 265.8 275.6 285.5 295.3 305.1 315.0 324.8 334.6 344.5 354.3 364.2 |       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |
| LH+LF_3<br>15°, 20°<br>     | 39.4          |                                                                                     |       | X           | X     | X     | X     | X     | [X]   | [X]   | [X]   | [X]   | [X]   | [X]   | [X]   | [X]   | [X]   |
| LH+LF_4<br>15°, 20°<br>     | 39.4          |                                                                                     |       | –           | –     | –     | –     | [X]   | [X]   | [X]   | [X]   | [X]   | [X]   | [X]   | [X]   | [X]   | –     |
|                                                                                                                | 59.0          |                                                                                     |       | –           | –     | –     | –     | [X]   | [X]   | [X]   | [X]   | [X]   | [X]   | –     | –     | –     | –     |

X without assisting equipment

[X] with additional side jack

All Superlift combinations can be erected or lowered to the ground without assisting equipment.



## Erection / lowering of the CC 3800-1 boom systems to the ground

| Boom combination                                                                                              | Mast (ft) | Fly jib (ft)     | Main boom (ft) |       |       |       |       |       |       |       |       |       |       |       |             |             |             |             |       |       |
|---------------------------------------------------------------------------------------------------------------|-----------|------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|-------------|-------------|-------------|-------|-------|
|                                                                                                               |           |                  | 118.1          | 137.8 | 157.5 | 177.2 | 196.9 | 216.5 | 236.2 | 255.9 | 275.6 | 295.3 | 315.0 | 334.6 | 354.3       | 374.0       | 393.7       | 413.4       | 433.1 | 452.8 |
| SSL_1                                                                                                         | 118.1     |                  | X              | X     | X     | X     | X     | X     | X     | X     | X     | X     | X     | X     | X           | -           | -           | -           | -     | -     |
| SSL_2                                                                                                         | 129.6     |                  | -              | X     | X     | X     | X     | X     | X     | X     | X     | X     | X     | X     | X           | -           | -           | -           | -     | -     |
| SSL_3                                                                                                         | 129.6     |                  | -              | -     | X     | X     | X     | X     | X     | X     | X     | X     | X     | X     | X           | -           | -           | -           | -     | -     |
| SSL_4                                                                                                         | 129.6     |                  | -              | -     | -     | -     | X     | X     | X     | X     | X     | X     | X     | X     | X           | -           | -           | -           | -     | -     |
| LSL_1                                                                                                         | 118.1     |                  | -              | -     | -     | -     | -     | X     | X     | X     | X     | X     | X     | X     | X           | X           | X           | X           | X     | X     |
| LSL_2                                                                                                         | 118.1     |                  | -              | -     | -     | X     | X     | X     | X     | X     | X     | X     | X     | X     | X           | X           | X           | X           | X     | X     |
| SWSL_1<br> 85°               | 118.1     | 78.7             | X              | X     | X     | X     | X     | X     | X     | X     | X     | X     | X     | -     | -           | -           | -           | -           | -     | -     |
|                                                                                                               |           | 98.4             | X              | X     | X     | X     | X     | X     | X     | X     | X     | X     | X     | -     | -           | -           | -           | -           | -     | -     |
|                                                                                                               |           | 118.1-196.9      | X              | X     | X     | X     | X     | X     | X     | X     | X     | X     | X     | -     | -           | -           | -           | -           | -     | -     |
|                                                                                                               |           | 216.5-295.3      | X              | X     | X     | X     | X     | X     | X     | X     | X     | X     | X     | -     | -           | -           | -           | -           | -     | -     |
|                                                                                                               |           | 315.0            | X              | X     | X     | X     | X     | X     | X     | X     | X     | X     | X     | -     | -           | -           | -           | -           | -     | -     |
| SWSL_3<br>SWSL_4<br> 85°     | 129.6     | 78.7             | -              | -     | o     | o     | X     | X     | X     | X     | X     | X     | X     | -     | -           | -           | -           | -           | -     | -     |
|                                                                                                               |           | 98.4             | -              | -     | o     | o     | X     | X     | X     | X     | X     | X     | X     | -     | -           | -           | -           | -           | -     | -     |
|                                                                                                               |           | 118.1-275.6      | -              | -     | o     | o     | X     | X     | X     | X     | X     | X     | X     | -     | -           | -           | -           | -           | -     | -     |
|                                                                                                               |           | 295.3            | -              | -     | o     | o     | X     | X     | X     | X     | X     | X     | X     | -     | -           | -           | -           | -           | -     | -     |
|                                                                                                               |           | 315.0            | -              | -     | o     | o     | X     | X     | X     | X     | X     | X     | X     | -     | -           | -           | -           | -           | -     | -     |
| SSL+LF_1<br> 15°, 20°, 30° | 118.1     | 39.4             | -              | X     | X     | X     | X     | X     | X     | X     | X     | X     | X     | X     | -           | -           | -           | -           | -     | -     |
|                                                                                                               |           | 78.7             | -              | X     | X     | X     | X     | X     | X     | X     | X     | X     | X     | X     | -           | -           | -           | -           | -     | -     |
|                                                                                                               |           | 118.1            | -              | X     | X     | X     | X     | X     | X     | X     | X     | X     | X     | X     | -           | -           | -           | -           | -     | -     |
| LSL+LF_2<br> 15°, 20°, 30° | 118.1     | 39.4             | -              | -     | -     | -     | -     | X     | X     | X     | X     | X     | X     | X     | X           | X           | X           | X           | X     | -     |
|                                                                                                               |           | 78.7             | -              | -     | -     | -     | -     | X     | X     | X     | X     | X     | X     | X     | X           | X           | X           | X           | X     | -     |
|                                                                                                               |           | 118.1            | -              | -     | -     | -     | -     | X     | X     | X     | X     | X     | X     | X     | X           | X           | X           | X           | X     | -     |
| LVSL_1                                                                                                        | 118.1     | 39.4             | X              | X     | X     | X     | X     | X     | X     | X     | X     | X     | X     | X     | -           | -           | -           | -           | -     | -     |
| LVSL_3, LVSL_4                                                                                                | 129.6     | 39.4             | -              | -     | o     | o     | X     | X     | X     | X     | X     | X     | X     | X     | -           | -           | -           | -           | -     | -     |
|                                                                                                               |           |                  | 255.9          | 275.6 | 295.3 | 305.1 | 315.0 | 324.8 | 334.6 | 344.5 | 354.3 | 364.2 | 374.0 | 383.9 | 393.7-403.5 | 413.4-423.2 | 433.1-482.3 | 492.1-521.7 | 531.5 | 541.3 |
| LSL_5                                                                                                         | 118.1     |                  | -              | -     | -     | -     | -     | -     | -     | -     | -     | -     | X     | X     | X           | X           | X           | X           | -     | -     |
| LSL_7                                                                                                         | 118.1     |                  | -              | -     | -     | -     | X     | X     | X     | X     | X     | X     | X     | X     | X           | X           | X           | X           | -     | -     |
| LSL_9                                                                                                         | 129.6     |                  | -              | -     | -     | -     | -     | X     | X     | X     | X     | X     | X     | X     | X           | X           | X           | (X)         | (X)   | -     |
| LSL_11                                                                                                        | 129.6     |                  | -              | -     | -     | -     | -     | X     | X     | X     | X     | X     | X     | X     | X           | X           | X           | (X)         | (X)   | -     |
| LSL_13                                                                                                        | 129.6     |                  | -              | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | X     | X           | X           | X           | (X)         | (X)   | (X)   |
| LSL_15                                                                                                        | 137.8     |                  | X              | X     | X     | X     | X     | X     | X     | X     | X     | X     | X     | X     | X           | X           | (X)         | (X)         | (X)   | (X)   |
| LSL+LF_3  15°, 20°         | 118.1     | 39.4             | X              | X     | X     | -     | X     | -     | X     | -     | X     | X     | X     | X     | X           | X           | -           | -           | -     | -     |
| LSL+LF_4  15°, 20°         | 118.1     | 39.4             | -              | -     | -     | -     | -     | X     | X     | X     | X     | X     | X     | X     | X           | X           | -           | -           | -     | -     |
| LSL+LF_4  20°              | 118.1     | 78.7             | -              | -     | -     | -     | -     | X     | X     | X     | X     | X     | X     | X     | X           | X           | -           | -           | -     | -     |
| LSL+LF_6  15°, 20°         | 118.1     | 39.4             | -              | -     | X     | X     | X     | X     | X     | X     | X     | X     | X     | X     | X           | X           | -           | -           | -     | -     |
| LSL+LF_8  15°, 20°         | 129.6     | 39.4             | -              | -     | -     | -     | X     | X     | X     | X     | X     | X     | X     | X     | X           | X           | -           | -           | -     | -     |
| LSL+LF_10  15°, 20°        | 129.6     | 39.4             | -              | -     | -     | -     | X     | X     | X     | X     | X     | X     | X     | X     | X           | X           | (X)         | (X)         | -     | -     |
| LSL+LF_12  15°, 20°        | 129.6     | 39.4             | -              | -     | -     | -     | -     | -     | -     | -     | -     | -     | X     | X     | X           | X           | (X)         | (X)         | -     | -     |
| LSL+LF_14  15°, 20°        | 137.8     | 39.4, 59.0, 78.7 | -              | -     | X     | X     | X     | X     | X     | X     | X     | X     | X     | X     | X           | (X)         | (X)         | (X)         | (X)   | -     |

X without assisting equipment

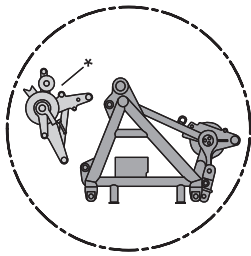
(X) with flex frame

o only SWSL\_3/LVSL\_3

The amount of Superlift counterweight required for erecting the boom system depends on the configuration and the Superlift radius.

# Boom Combinations

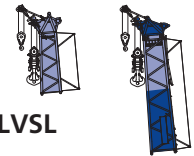
CC 3800-1



\* Attachable

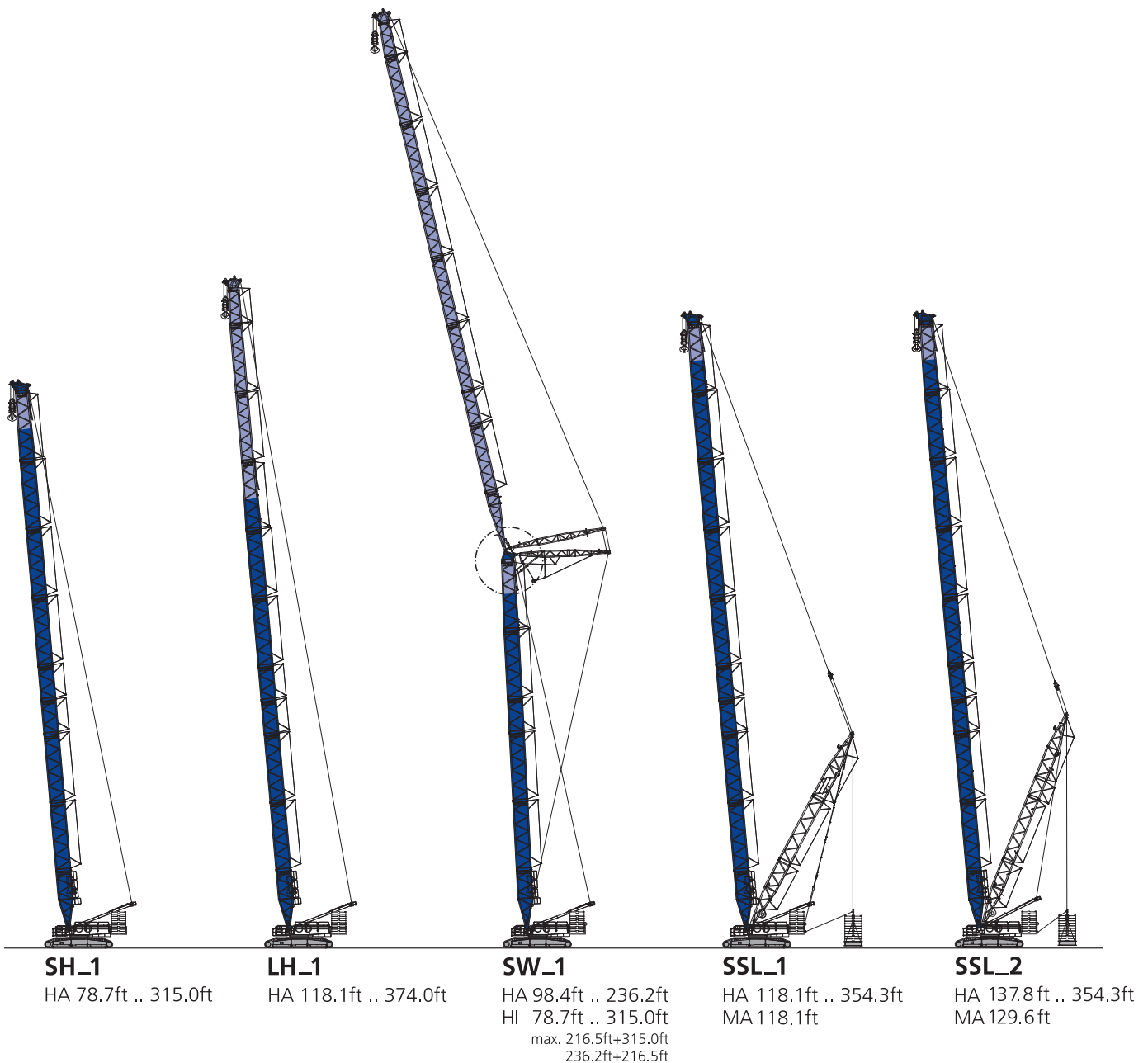
■ Type 2824A  
■ Type 2420A

Runner  
119,000 lb



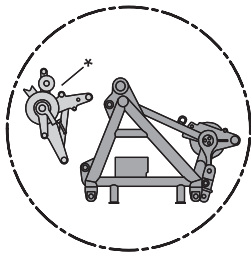
LH, LSL, SW, SWSL, LVSL

SH, SSL



# Boom Combinations

CC 3800-1



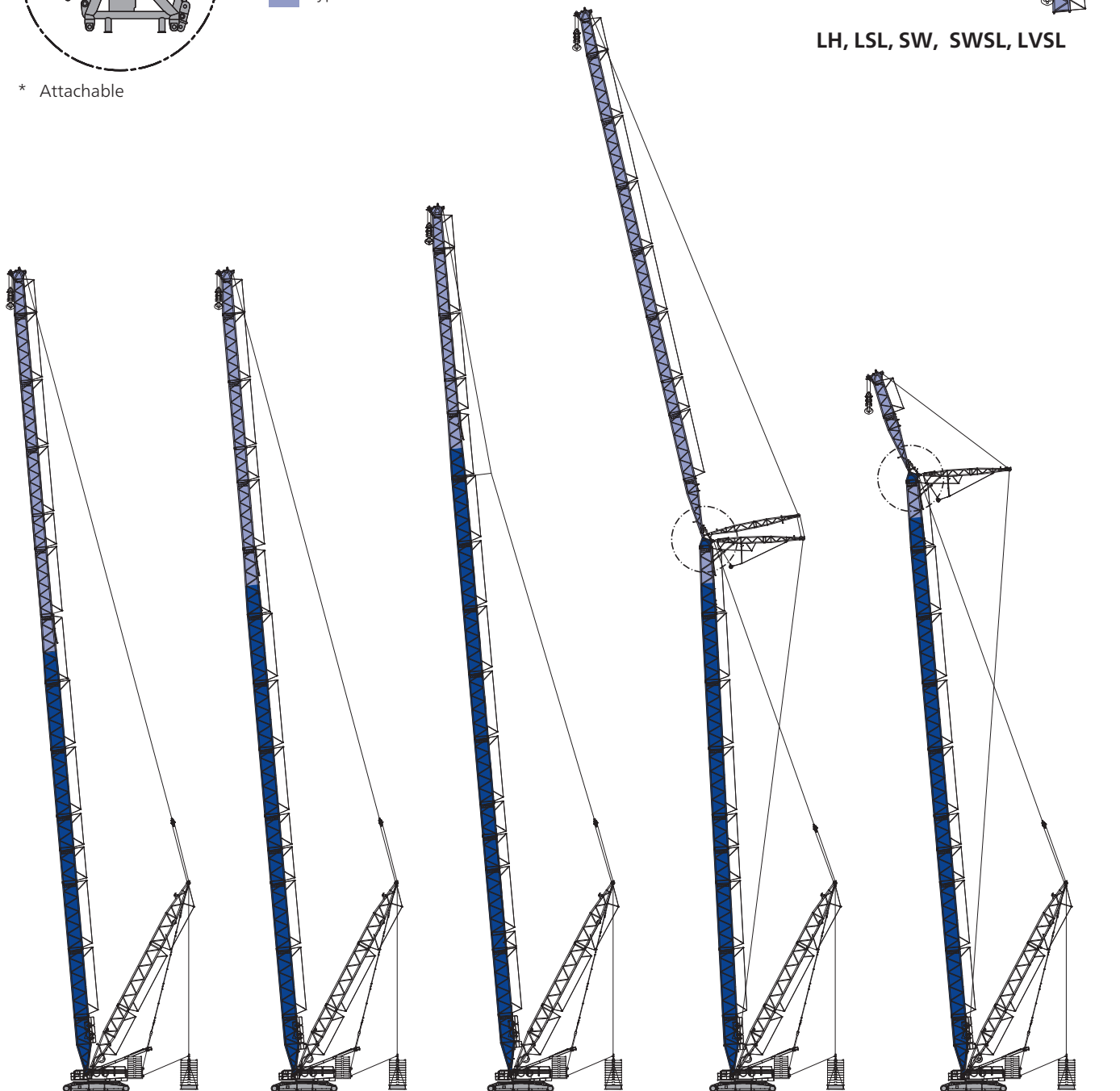
\* Attachable

■ Type 2824A  
■ Type 2420A

Runner  
119,000 lb



LH, LSL, SW, SWSL, LVSL



**LSL\_1**

HA 236.2ft .. 472.4ft  
MA 118.1ft

**LSL\_2**

HA 177.2ft .. 472.4ft  
MA 118.1ft

**LSL\_5**

HA 374.0ft .. 521.7ft  
MA 118.1ft

**SWSL\_1**

HA 118.1ft .. 354.3ft  
HI 78.7ft .. 315.0ft  
max. 315.0ft + 315.0ft  
334.6ft + 295.3ft  
354.3ft + 196.9ft  
MA 118.1ft

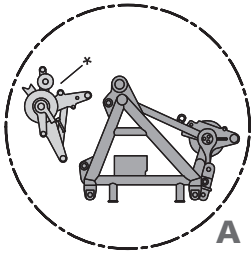
**LVSL\_1**

HA 118.1ft .. 354.3ft  
HI 59.0ft  
MA 118.1ft

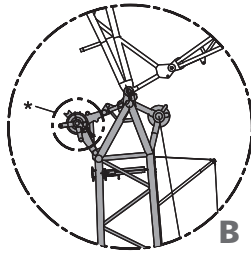
**DEMAG**  
TADANO GROUP

# Boom Combinations

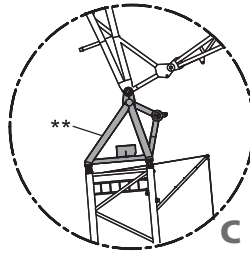
CC 3800-1



**A**



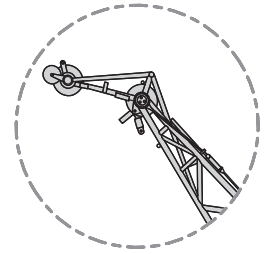
**B**



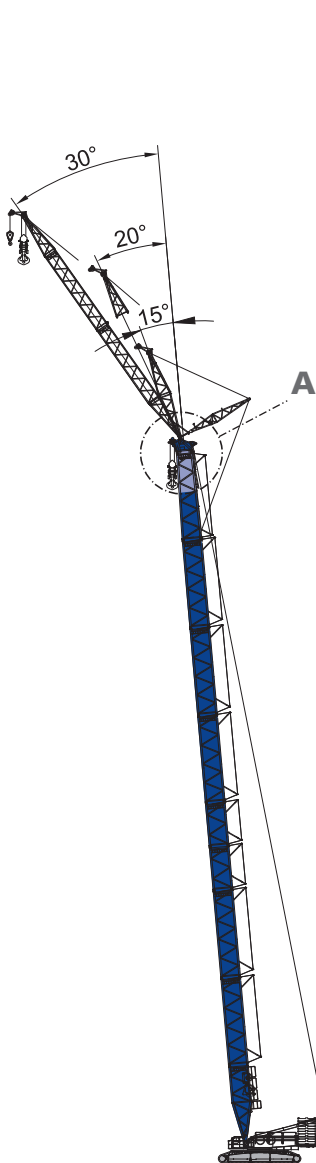
**C**

\* Attachable  
\*\* Option

Type 2824A  
Type 2420A

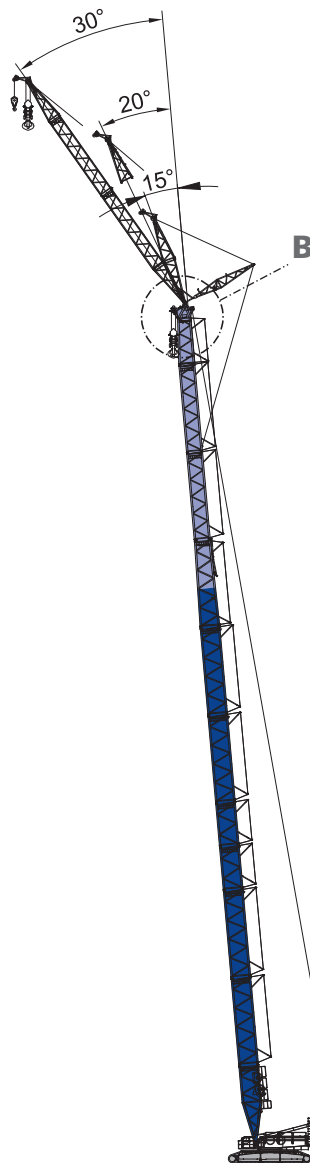


Runner 39,700 lb  
on LF standard



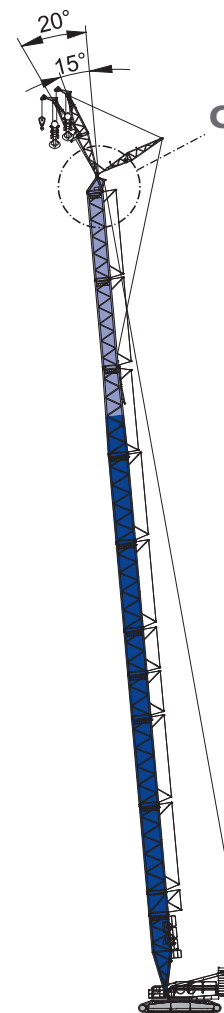
**SH+LF\_1**

HA 98.4ft .. 315.0ft  
HI 39.4ft .. 118.1ft  
max. 275.6ft + 118.1ft  
295.3ft + 78.7ft  
315.0ft + 39.4ft



**LH+LF\_1**

HA 157.5ft .. 374.0ft  
HI 39.4ft .. 118.1ft  
max. 334.6ft + 118.1ft  
354.3ft + 78.7ft  
374.0ft + 39.4ft

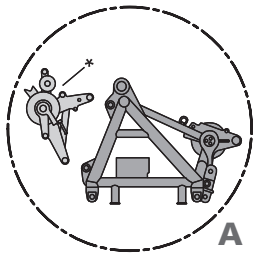


**LH+LF\_3**

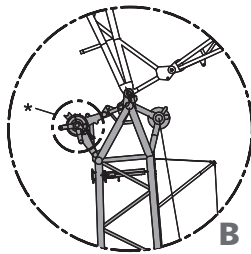
HA 236.2ft .. 364.2ft  
HI 39.4ft

# Boom Combinations

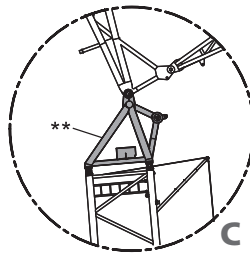
CC 3800-1



**A**



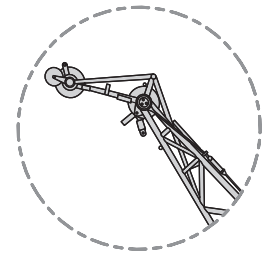
**B**



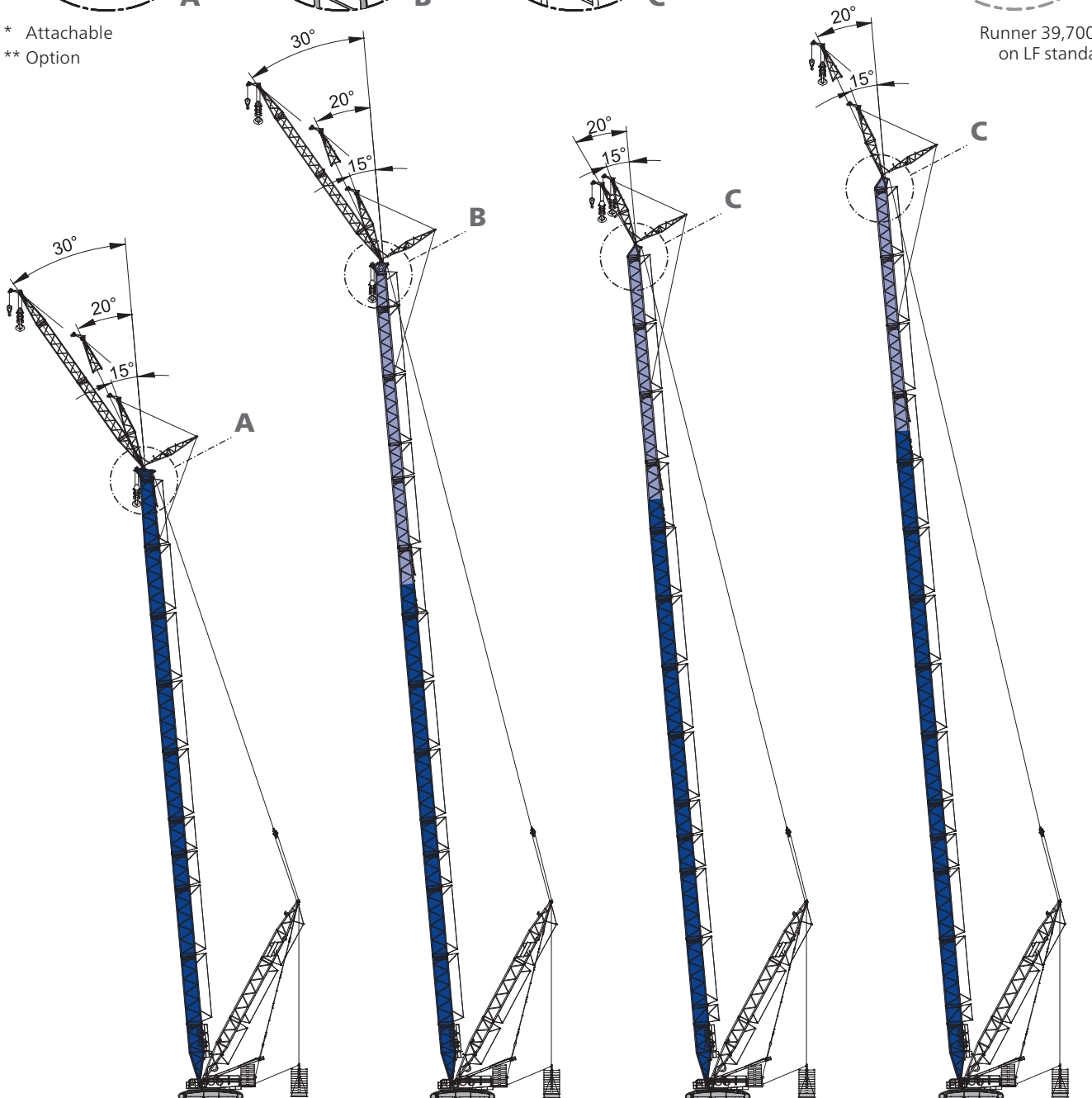
**C**

\* Attachable  
\*\* Option

■ Type 2824A  
■ Type 2420A



Runner 39,700 lb  
on LF standard



**SSL+LF\_1**

HA 137.8ft .. 354.3ft  
HI 39.4ft .. 118.1ft  
MA 118.1ft

**LSL+LF\_2**

HA 236.2ft .. 472.4ft  
HI 39.4ft .. 118.1ft  
MA 118.1ft

**LSL+LF\_3**

HA 255.9ft .. 482.3ft  
HI 39.4ft  
MA 118.1ft

**LSL+LF\_4**

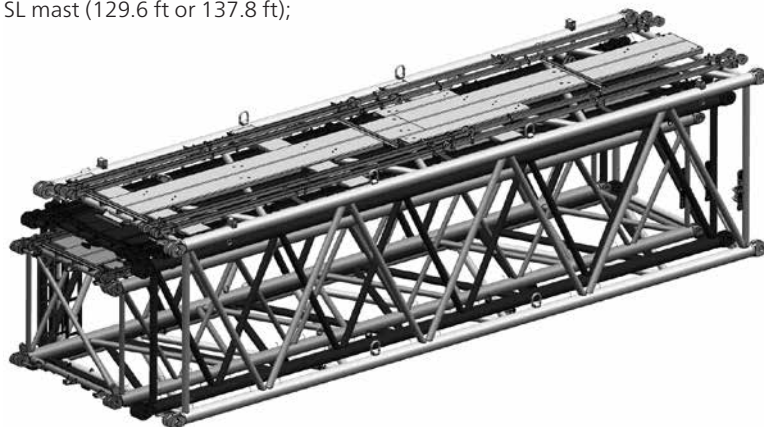
HA 452.8ft .. 521.7ft  
HI 39.4ft / 78.7ft  
MA 118.1ft

**DEMAG**  
TADANO GROUP

# Boom Combinations Boom Booster

CC 3800-1

Boom system type **3330A** in combination with extended SL mast (129.6 ft or 137.8 ft); 2824A and 2420A with slide-in function.



- Type 3330A
- Type 2824A
- Type 2420A



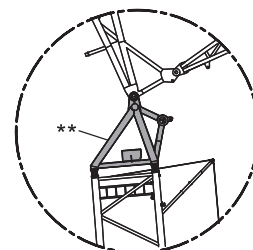
**LH\_5**  
HA 177.2 ft .. 374.0 ft

**LH+LF\_4**  
HA 275.6 ft .. 354.3 ft  
HI 39.4 ft, 59.0 ft  
max. 354.3 ft + 39.4 ft  
315.0 ft + 59.0 ft

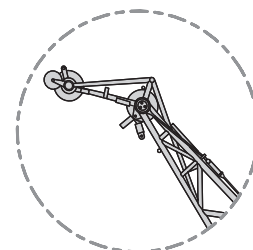
Runner 119,000 lb



LH, LSL, SW, SWSL, LVSL

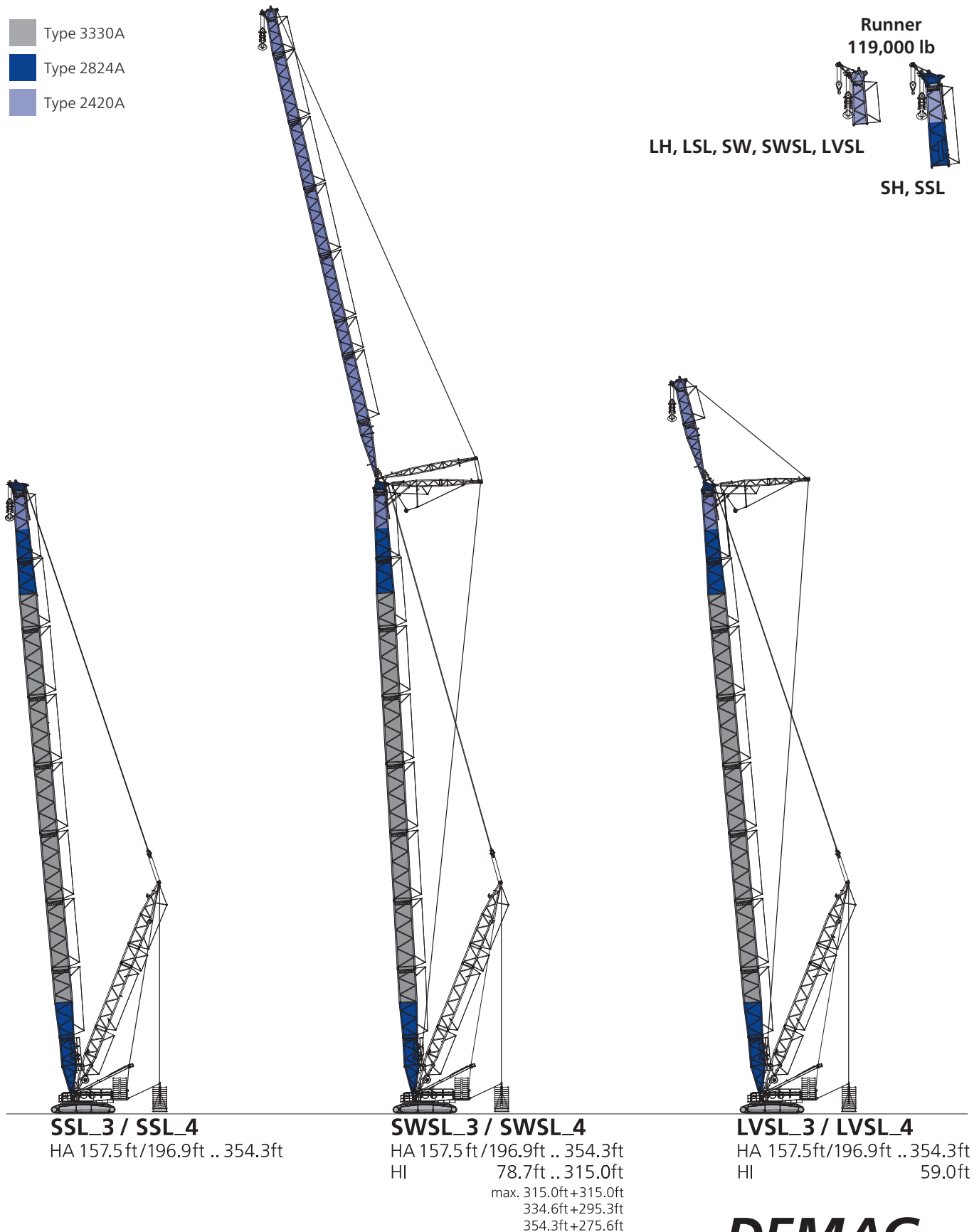
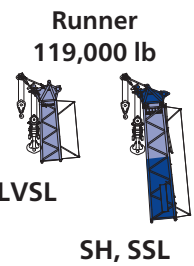


\*\* Option



Runner 39,700 lb  
on LF standard

-  Type 3330A
-  Type 2824A
-  Type 2420A





# Boom Combinations Boom Booster

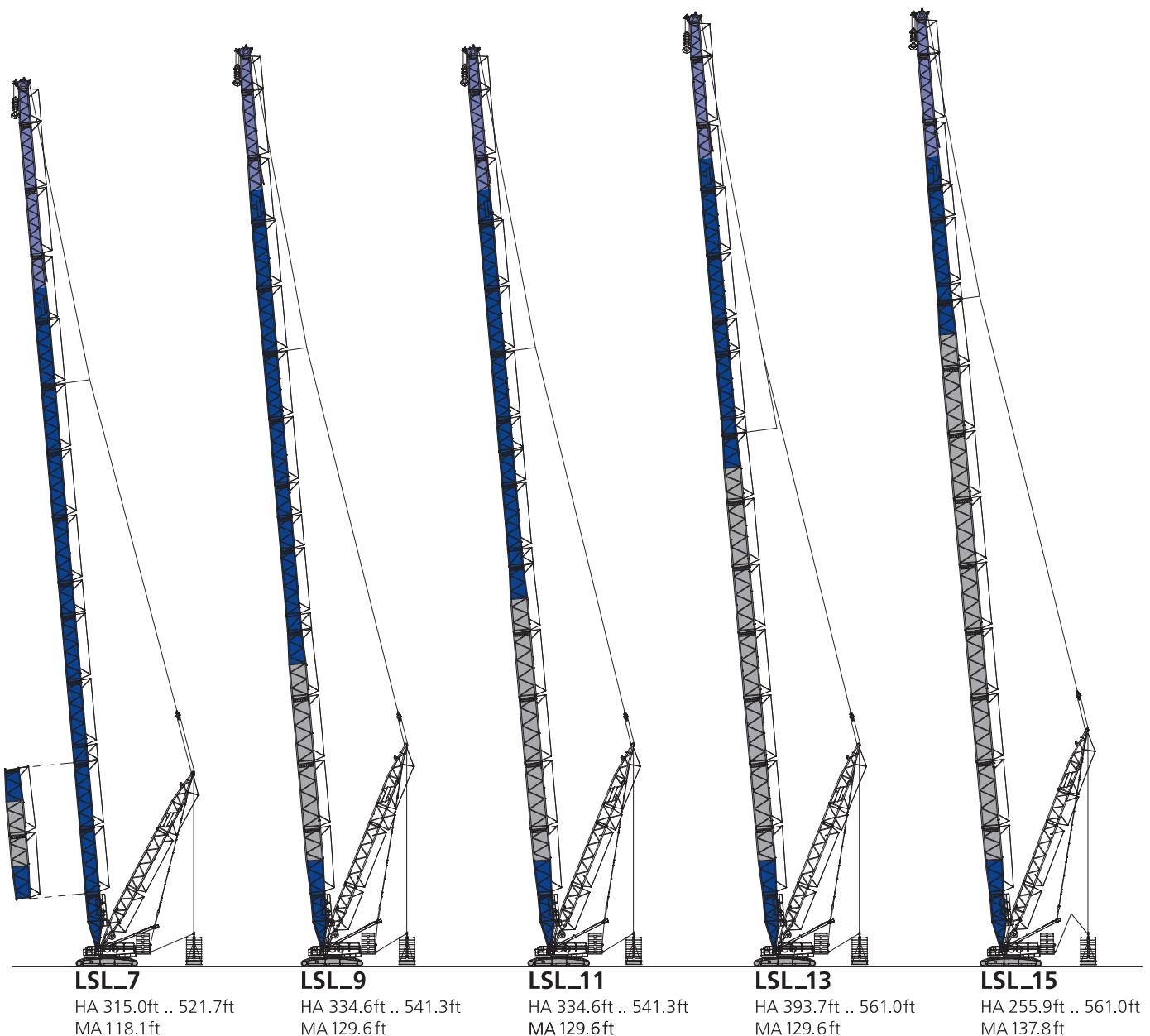
CC 3800-1

Type 3330A

Type 2824A

Type 2420A

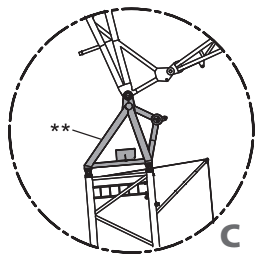
Runner  
119,000 lb





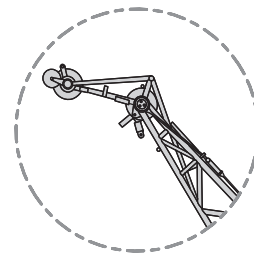
# Boom Combinations Boom Booster

CC 3800-1

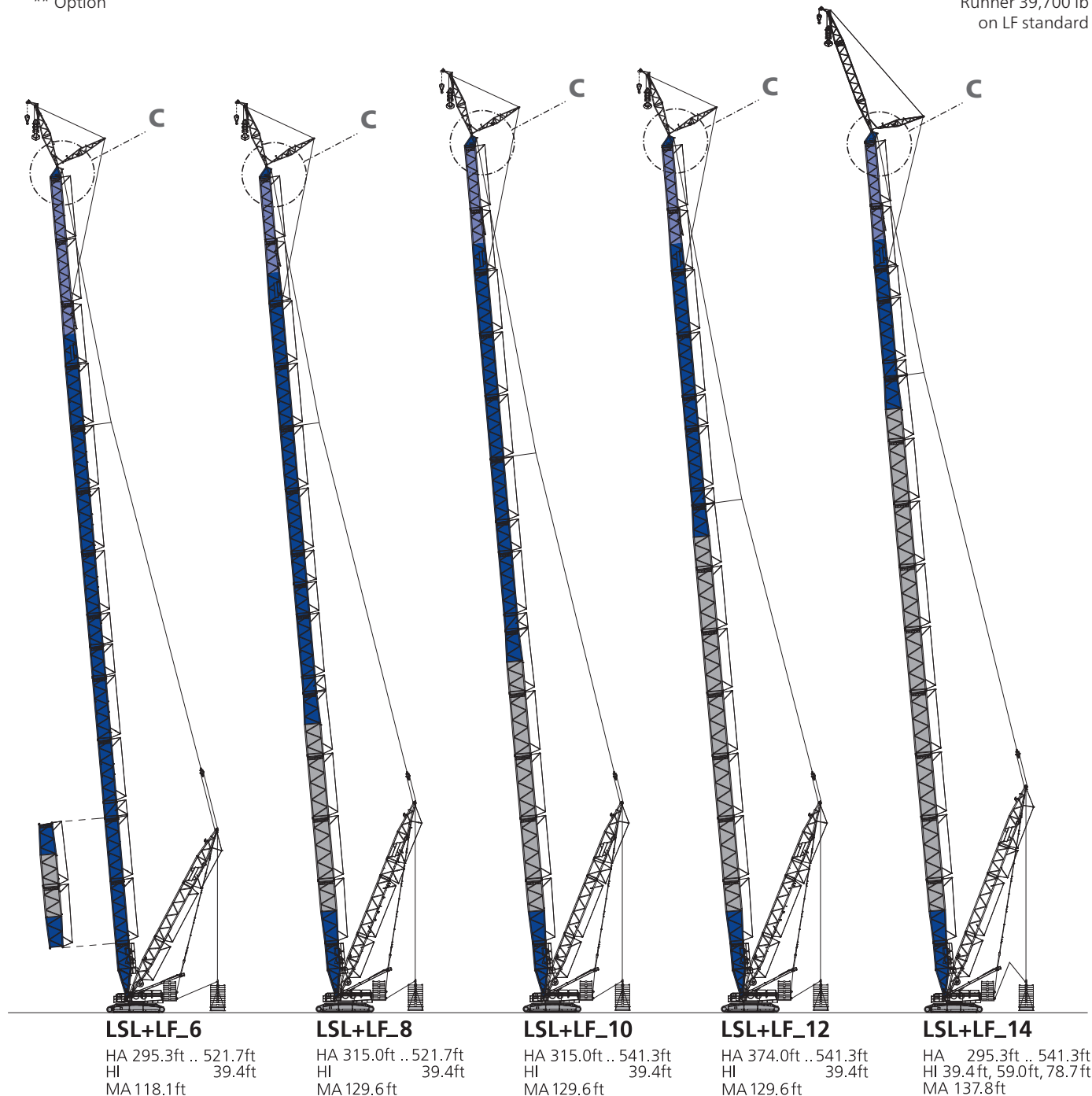


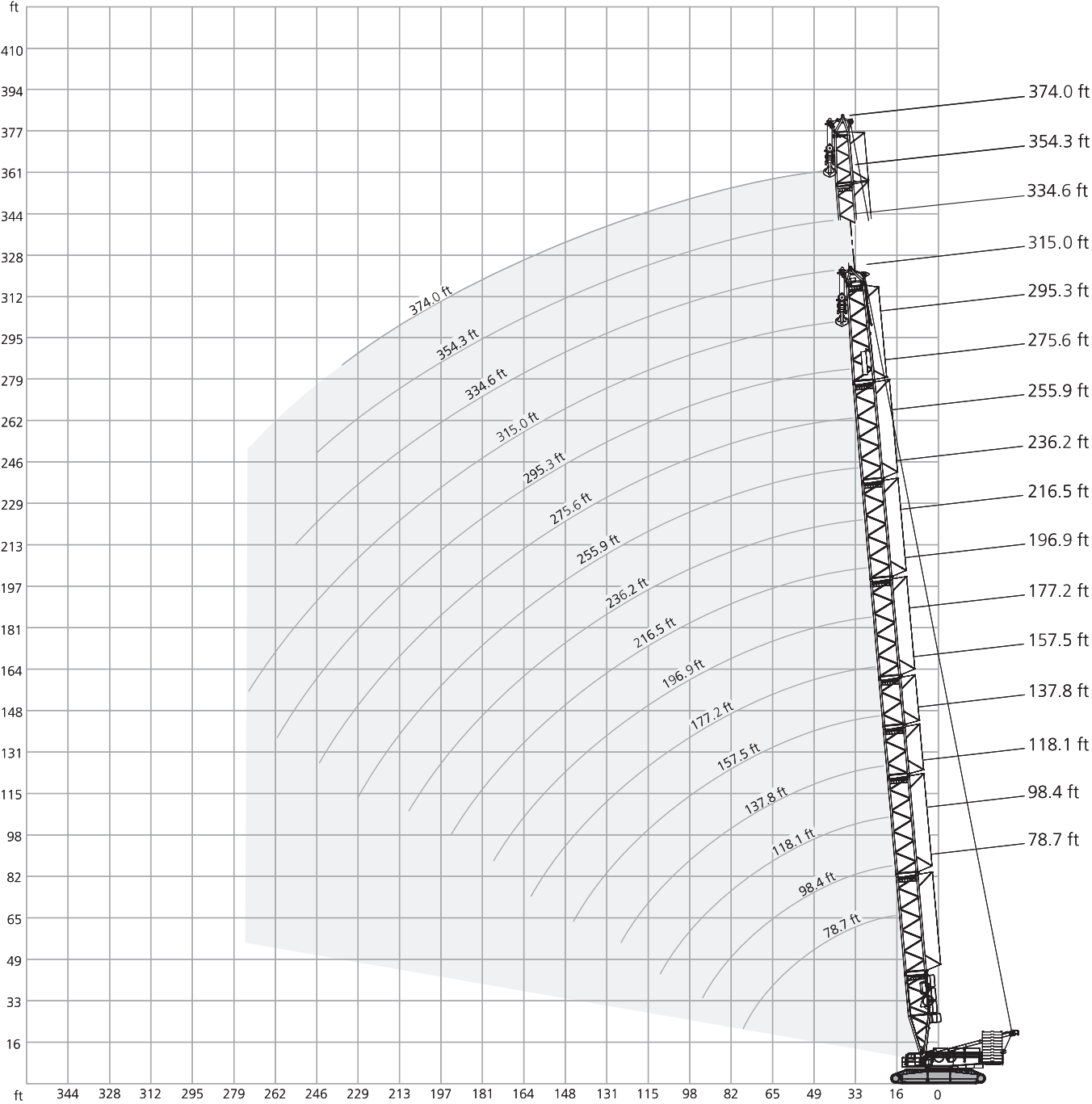
\*\* Option

- Type 3330A
- Type 2824A
- Type 2420A



Runner 39,700 lb  
on LF standard





|  |                                                                                      |  27.6 ft |        |  32.2 ft/s |       | 360°  |       | ASME B30.5 |       |       |       |       |       |       |                                                                                     |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------|-------|-------|-------|------------|-------|-------|-------|-------|-------|-------|-------------------------------------------------------------------------------------|
| SH.1                                                                              |                                                                                      |                                                                                           |        |                                                                                             |       |       |       |            |       |       |       |       |       |       |                                                                                     |
|  |  ft | 78.7                                                                                      | 98.4   | 118.1                                                                                       | 137.8 | 157.5 | 177.2 | 196.9      | 216.5 | 236.2 | 255.9 | 275.6 | 295.3 | 315.0 |  |
| ft                                                                                | 1,000 lb                                                                             |                                                                                           |        |                                                                                             |       |       |       |            |       |       |       |       |       |       | ft                                                                                  |
| 18.0                                                                              | 1406.6                                                                               | -                                                                                         | -      | -                                                                                           | -     | -     | -     | -          | -     | -     | -     | -     | -     | -     | 18.0                                                                                |
| 19.7                                                                              | 1327.2                                                                               | 1320.6                                                                                    | -      | -                                                                                           | -     | -     | -     | -          | -     | -     | -     | -     | -     | -     | 19.7                                                                                |
| 23.0                                                                              | 1190.5                                                                               | 1186.1                                                                                    | 1179.5 | 1095.7                                                                                      | -     | -     | -     | -          | -     | -     | -     | -     | -     | -     | 23.0                                                                                |
| 26.2                                                                              | 1064.8                                                                               | 1060.4                                                                                    | 1007.5 | 937.0                                                                                       | 873.0 | 817.9 | -     | -          | -     | -     | -     | -     | -     | -     | 26.2                                                                                |
| 29.5                                                                              | 941.4                                                                                | 934.8                                                                                     | 870.8  | 815.7                                                                                       | 765.0 | 720.9 | 679.0 | -          | -     | -     | -     | -     | -     | -     | 29.5                                                                                |
| 32.8                                                                              | 842.2                                                                                | 815.7                                                                                     | 767.2  | 723.1                                                                                       | 681.2 | 643.8 | 610.7 | 579.8      | 551.2 | -     | -     | -     | -     | -     | 32.8                                                                                |
| 36.1                                                                              | 744.1                                                                                | 729.7                                                                                     | 691.1  | 653.7                                                                                       | 618.4 | 586.4 | 556.7 | 530.2      | 504.9 | 480.6 | 456.4 | -     | -     | -     | 36.1                                                                                |
| 39.4                                                                              | 646.0                                                                                | 643.8                                                                                     | 615.1  | 584.2                                                                                       | 555.6 | 529.1 | 502.7 | 480.6      | 458.6 | 440.9 | 421.1 | 405.7 | 385.8 | -     | 39.4                                                                                |
| 45.9                                                                              | 502.7                                                                                | 502.7                                                                                     | 500.4  | 489.4                                                                                       | 467.4 | 445.3 | 425.5 | 410.1      | 390.2 | 377.0 | 359.4 | 348.3 | 332.9 | -     | 45.9                                                                                |
| 52.5                                                                              | 410.1                                                                                | 407.9                                                                                     | 407.9  | 403.4                                                                                       | 401.2 | 383.6 | 368.2 | 352.7      | 339.5 | 326.3 | 313.1 | 304.2 | 291.0 | -     | 52.5                                                                                |
| 59.1                                                                              | 346.1                                                                                | 343.9                                                                                     | 341.7  | 337.3                                                                                       | 337.3 | 335.1 | 321.9 | 310.9      | 297.6 | 286.6 | 275.6 | 266.8 | 255.7 | -     | 59.1                                                                                |
| 65.6                                                                              | 297.6                                                                                | 293.2                                                                                     | 291.0  | 288.8                                                                                       | 286.6 | 284.4 | 282.2 | 275.6      | 262.4 | 255.7 | 244.7 | 238.1 | 227.1 | -     | 65.6                                                                                |
| 72.2                                                                              | 260.1                                                                                | 255.7                                                                                     | 253.5  | 251.3                                                                                       | 249.1 | 246.9 | 244.7 | 242.5      | 233.7 | 227.1 | 218.3 | 212.7 | 202.8 | -     | 72.2                                                                                |
| 75.5                                                                              | 244.7                                                                                | 241.4                                                                                     | 239.2  | 235.9                                                                                       | 234.2 | 232.0 | 229.3 | 228.2      | 222.1 | 216.1 | 207.2 | 202.3 | 192.9 | -     | 75.5                                                                                |
| 78.7                                                                              | -                                                                                    | 227.1                                                                                     | 224.9  | 220.5                                                                                       | 219.4 | 217.2 | 213.8 | 213.8      | 210.5 | 205.0 | 196.2 | 191.8 | 183.0 | -     | 78.7                                                                                |
| 85.3                                                                              | -                                                                                    | 202.8                                                                                     | 199.5  | 196.2                                                                                       | 194.0 | 191.8 | 189.6 | 188.5      | 185.2 | 184.1 | 177.5 | 173.1 | 164.2 | -     | 85.3                                                                                |
| 91.9                                                                              | -                                                                                    | 183.0                                                                                     | 179.7  | 176.4                                                                                       | 174.2 | 170.9 | 168.7 | 167.6      | 165.3 | 164.2 | 160.9 | 156.5 | 148.8 | -     | 91.9                                                                                |
| 98.4                                                                              | -                                                                                    | -                                                                                         | 163.1  | 159.8                                                                                       | 156.5 | 154.3 | 151.0 | 149.9      | 147.7 | 146.6 | 143.3 | 143.3 | 135.6 | -     | 98.4                                                                                |
| 108.3                                                                             | -                                                                                    | -                                                                                         | 142.2  | 139.2                                                                                       | 135.9 | 133.7 | 130.3 | 129.2      | 125.7 | 124.6 | 122.4 | 122.4 | 118.2 | -     | 108.3                                                                               |
| 111.5                                                                             | -                                                                                    | -                                                                                         | -      | 132.3                                                                                       | 129.0 | 126.8 | 123.5 | 122.4      | 120.2 | 117.9 | 115.7 | 115.7 | 112.4 | -     | 111.5                                                                               |
| 124.7                                                                             | -                                                                                    | -                                                                                         | -      | 112.4                                                                                       | 109.3 | 106.3 | 103.4 | 102.1      | 99.0  | 97.4  | 94.1  | 93.5  | 90.6  | -     | 124.7                                                                               |
| 137.8                                                                             | -                                                                                    | -                                                                                         | -      | -                                                                                           | 93.5  | 89.9  | 86.9  | 85.1       | 81.4  | 79.8  | 76.5  | 75.6  | 72.8  | -     | 137.8                                                                               |
| 144.4                                                                             | -                                                                                    | -                                                                                         | -      | -                                                                                           | 86.9  | 83.4  | 79.7  | 77.6       | 74.3  | 72.6  | 69.3  | 68.5  | 65.5  | -     | 144.4                                                                               |
| 150.9                                                                             | -                                                                                    | -                                                                                         | -      | -                                                                                           | -     | 76.9  | 73.0  | 71.0       | 67.2  | 65.5  | 62.2  | 61.3  | 58.2  | -     | 150.9                                                                               |
| 160.8                                                                             | -                                                                                    | -                                                                                         | -      | -                                                                                           | -     | 68.6  | 64.5  | 62.4       | 58.5  | 56.7  | 53.1  | 52.4  | 49.4  | -     | 160.8                                                                               |
| 164.0                                                                             | -                                                                                    | -                                                                                         | -      | -                                                                                           | -     | -     | 61.7  | 59.5       | 55.6  | 53.8  | 50.3  | 49.6  | 46.5  | -     | 164.0                                                                               |
| 177.2                                                                             | -                                                                                    | -                                                                                         | -      | -                                                                                           | -     | -     | 52.5  | 50.0       | 46.1  | 44.1  | 40.6  | 39.7  | 36.6  | -     | 177.2                                                                               |
| 190.3                                                                             | -                                                                                    | -                                                                                         | -      | -                                                                                           | -     | -     | -     | 42.3       | 37.9  | 36.2  | 32.4  | 31.5  | 28.2  | -     | 190.3                                                                               |
| 193.6                                                                             | -                                                                                    | -                                                                                         | -      | -                                                                                           | -     | -     | -     | 40.6       | 36.2  | 34.4  | 30.6  | 29.8  | 26.4  | -     | 193.6                                                                               |
| 203.4                                                                             | -                                                                                    | -                                                                                         | -      | -                                                                                           | -     | -     | -     | -          | 31.1  | 29.1  | 25.4  | 24.5  | 20.9  | -     | 203.4                                                                               |
| 210.0                                                                             | -                                                                                    | -                                                                                         | -      | -                                                                                           | -     | -     | -     | -          | 28.2  | 26.2  | 22.3  | 21.4  | 17.9  | -     | 210.0                                                                               |
| 216.5                                                                             | -                                                                                    | -                                                                                         | -      | -                                                                                           | -     | -     | -     | -          | -     | 23.4  | 19.4  | 18.3  | 14.8  | -     | 216.5                                                                               |
| 223.1                                                                             | -                                                                                    | -                                                                                         | -      | -                                                                                           | -     | -     | -     | -          | -     | 20.9  | 16.8  | 15.7  | 12.1  | -     | 223.1                                                                               |
| 229.7                                                                             | -                                                                                    | -                                                                                         | -      | -                                                                                           | -     | -     | -     | -          | -     | 18.3  | 14.1  | 13.0  | -     | -     | 229.7                                                                               |
| 232.9                                                                             | -                                                                                    | -                                                                                         | -      | -                                                                                           | -     | -     | -     | -          | -     | -     | 13.0  | 11.9  | -     | -     | 232.9                                                                               |
| 236.2                                                                             | -                                                                                    | -                                                                                         | -      | -                                                                                           | -     | -     | -     | -          | -     | -     | 11.9  | -     | -     | -     | 236.2                                                                               |

 408,000 lb   452,000 lb  
 66,100 lb   110,200 lb

| <div>   27.6 ft            32.2 ft/s           360°           ASME B30.5         </div> |        |        |       |       |       |       |       |       |       |       |       |       |       |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SH.1                                                                                                                                                                                                                                                                                                                                       |        |        |       |       |       |       |       |       |       |       |       |       |       |       |
| ft                                                                                                                                                                                                                                                                                                                                         | ft     | ft     | ft    | ft    | ft    | ft    | ft    | ft    | ft    | ft    | ft    | ft    | ft    | ft    |
| 1,000 lb                                                                                                                                                                                                                                                                                                                                   |        |        |       |       |       |       |       |       |       |       |       |       |       |       |
| 18.0                                                                                                                                                                                                                                                                                                                                       | 1382.3 | -      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 18.0  |
| 19.7                                                                                                                                                                                                                                                                                                                                       | 1208.1 | 1280.9 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 19.7  |
| 23.0                                                                                                                                                                                                                                                                                                                                       | 1137.6 | 1034.0 | 945.8 | 866.4 | -     | -     | -     | -     | -     | -     | -     | -     | -     | 23.0  |
| 26.2                                                                                                                                                                                                                                                                                                                                       | 939.2  | 862.0  | 798.1 | 740.8 | 687.8 | 643.8 | -     | -     | -     | -     | -     | -     | -     | 26.2  |
| 29.5                                                                                                                                                                                                                                                                                                                                       | 795.9  | 738.5  | 687.8 | 643.8 | 604.1 | 566.6 | 533.5 | -     | -     | -     | -     | -     | -     | 29.5  |
| 32.8                                                                                                                                                                                                                                                                                                                                       | 687.8  | 643.8  | 604.1 | 568.8 | 535.7 | 504.9 | 476.2 | 451.9 | 427.7 | -     | -     | -     | -     | 32.8  |
| 36.1                                                                                                                                                                                                                                                                                                                                       | 597.5  | 575.4  | 543.4 | 513.7 | 485.0 | 458.6 | 434.3 | 412.3 | 391.3 | 370.4 | 352.7 | -     | -     | 36.1  |
| 39.4                                                                                                                                                                                                                                                                                                                                       | 507.1  | 507.1  | 482.8 | 458.6 | 434.3 | 412.3 | 392.4 | 372.6 | 354.9 | 339.5 | 324.1 | 310.9 | 295.4 | 39.4  |
| 45.9                                                                                                                                                                                                                                                                                                                                       | 394.6  | 392.4  | 392.4 | 381.4 | 363.8 | 346.1 | 328.5 | 315.3 | 299.8 | 288.8 | 275.6 | 264.6 | 251.3 | 45.9  |
| 52.5                                                                                                                                                                                                                                                                                                                                       | 319.7  | 319.7  | 317.5 | 315.3 | 310.9 | 295.4 | 282.2 | 271.2 | 257.9 | 249.1 | 235.9 | 229.3 | 218.3 | 52.5  |
| 59.1                                                                                                                                                                                                                                                                                                                                       | 269.0  | 266.8  | 264.6 | 260.1 | 260.1 | 257.9 | 244.7 | 235.9 | 224.9 | 217.2 | 207.2 | 200.6 | 190.7 | 59.1  |
| 65.6                                                                                                                                                                                                                                                                                                                                       | 229.3  | 227.1  | 224.9 | 222.7 | 220.5 | 218.3 | 216.1 | 208.3 | 197.3 | 190.7 | 181.9 | 176.4 | 167.6 | 65.6  |
| 72.2                                                                                                                                                                                                                                                                                                                                       | 200.6  | 197.3  | 195.1 | 191.8 | 189.6 | 187.4 | 185.2 | 184.1 | 175.3 | 169.8 | 160.9 | 156.5 | 147.7 | 72.2  |
| 75.5                                                                                                                                                                                                                                                                                                                                       | 188.5  | 185.7  | 183.0 | 179.7 | 177.5 | 175.3 | 173.1 | 172.0 | 165.9 | 160.4 | 152.1 | 147.7 | 139.4 | 75.5  |
| 78.7                                                                                                                                                                                                                                                                                                                                       | -      | 174.2  | 170.9 | 167.6 | 165.3 | 163.1 | 160.9 | 159.8 | 156.5 | 151.0 | 143.3 | 138.9 | 131.2 | 78.7  |
| 85.3                                                                                                                                                                                                                                                                                                                                       | -      | 154.3  | 151.0 | 147.7 | 145.5 | 143.3 | 141.1 | 140.0 | 136.7 | 135.6 | 127.9 | 124.6 | 116.8 | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                                       | -      | 138.9  | 135.6 | 132.3 | 130.1 | 126.8 | 124.6 | 123.5 | 120.2 | 119.0 | 114.6 | 111.3 | 104.5 | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                       | -      | -      | 122.4 | 117.9 | 115.7 | 113.5 | 110.2 | 109.8 | 106.9 | 105.8 | 103.0 | 100.3 | 93.5  | 98.4  |
| 108.3                                                                                                                                                                                                                                                                                                                                      | -      | -      | 106.0 | 102.6 | 99.9  | 97.0  | 94.2  | 92.9  | 89.1  | 87.7  | 84.9  | 84.0  | 79.6  | 108.3 |
| 111.5                                                                                                                                                                                                                                                                                                                                      | -      | -      | -     | 97.4  | 94.6  | 91.5  | 88.8  | 87.3  | 83.8  | 82.2  | 79.1  | 78.5  | 75.0  | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                      | -      | -      | -     | 81.4  | 78.0  | 74.3  | 71.0  | 69.4  | 65.7  | 64.2  | 61.1  | 60.4  | 57.3  | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                      | -      | -      | -     | -     | 64.6  | 60.8  | 57.1  | 55.3  | 51.6  | 50.0  | 46.7  | 46.1  | 43.0  | 137.8 |
| 144.4                                                                                                                                                                                                                                                                                                                                      | -      | -      | -     | -     | 59.3  | 55.4  | 51.4  | 49.4  | 46.0  | 44.3  | 41.0  | 40.3  | 37.3  | 144.4 |
| 150.9                                                                                                                                                                                                                                                                                                                                      | -      | -      | -     | -     | -     | 50.0  | 46.1  | 44.1  | 40.3  | 38.6  | 35.3  | 34.6  | 31.5  | 150.9 |
| 160.8                                                                                                                                                                                                                                                                                                                                      | -      | -      | -     | -     | -     | 43.4  | 39.5  | 37.3  | 33.4  | 31.6  | 28.0  | 27.3  | 24.3  | 160.8 |
| 164.0                                                                                                                                                                                                                                                                                                                                      | -      | -      | -     | -     | -     | -     | 37.3  | 35.1  | 31.1  | 29.3  | 25.8  | 25.1  | 22.0  | 164.0 |
| 177.2                                                                                                                                                                                                                                                                                                                                      | -      | -      | -     | -     | -     | -     | 30.0  | 27.6  | 23.4  | 21.6  | 18.1  | 17.2  | 14.1  | 177.2 |
| 180.4                                                                                                                                                                                                                                                                                                                                      | -      | -      | -     | -     | -     | -     | -     | 26.0  | 21.8  | 20.0  | 16.4  | 15.5  | 12.3  | 180.4 |
| 187.0                                                                                                                                                                                                                                                                                                                                      | -      | -      | -     | -     | -     | -     | -     | 22.9  | 18.7  | 16.8  | 13.1  | 12.1  | -     | 187.0 |
| 190.3                                                                                                                                                                                                                                                                                                                                      | -      | -      | -     | -     | -     | -     | -     | 21.4  | 17.2  | 15.2  | 11.5  | -     | -     | 190.3 |
| 193.6                                                                                                                                                                                                                                                                                                                                      | -      | -      | -     | -     | -     | -     | -     | 20.1  | 15.8  | 13.8  | -     | -     | -     | 193.6 |
| 200.1                                                                                                                                                                                                                                                                                                                                      | -      | -      | -     | -     | -     | -     | -     | -     | 13.1  | 11.0  | -     | -     | -     | 200.1 |
| 203.4                                                                                                                                                                                                                                                                                                                                      | -      | -      | -     | -     | -     | -     | -     | -     | 11.7  | -     | -     | -     | -     | 203.4 |



275,600 lb 363,800 lb

|     |          |  27.6 ft |            |  32.2 ft/s |       | 360°  |       | ASME B30.5 |       |       |       |       |       |                                                                                     |
|--------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------|-------|-------|-------|------------|-------|-------|-------|-------|-------|-------------------------------------------------------------------------------------|
|  ft | 118.1    | 137.8                                                                                     | 157.5      | 177.2                                                                                       | 187.0 | 196.9 | 206.7 | 216.5      | 226.4 | 236.2 | 246.1 | 255.9 | 265.8 |  |
|                                                                                      | LH_1     |                                                                                           |            | LH_5                                                                                        |       | LH_1  | LH_5  | LH_1       | LH_5  | LH_1  | LH_5  | LH_1  | LH_5  |                                                                                     |
| ft                                                                                   | 1,000 lb |                                                                                           |            |                                                                                             |       |       |       |            |       |       |       |       |       | ft                                                                                  |
| 23.0                                                                                 | 765.0    | 765.0                                                                                     | -          | -                                                                                           | -     | -     | -     | -          | -     | -     | -     | -     | -     | 23.0                                                                                |
| 26.2                                                                                 | 765.0    | 765.0                                                                                     | 765.0      | 765.0                                                                                       | 765.0 | 765.0 | -     | -          | -     | -     | -     | -     | -     | 26.2                                                                                |
| 29.5                                                                                 | 765.0    | 765.0                                                                                     | 765.0      | 734.1                                                                                       | 765.0 | 765.0 | 692.3 | 765.0      | 762.8 | 654.8 | 743.0 | 723.1 | -     | 29.5                                                                                |
| 32.8                                                                                 | 765.0    | 729.7                                                                                     | 694.5      | 657.0                                                                                       | 736.3 | 718.7 | 621.7 | 701.1      | 683.4 | 590.8 | 665.8 | 650.4 | 562.2 | 32.8                                                                                |
| 39.4                                                                                 | 623.9    | 590.8                                                                                     | 568.8      | 542.3                                                                                       | 601.9 | 588.6 | 515.9 | 575.4      | 562.2 | 493.8 | 551.2 | 537.9 | 471.8 | 39.4                                                                                |
| 45.9                                                                                 | 509.3    | 496.0                                                                                     | 480.6      | 458.6                                                                                       | 504.9 | 496.0 | 440.9 | 485.0      | 476.2 | 421.1 | 465.2 | 456.4 | 405.7 | 45.9                                                                                |
| 52.5                                                                                 | 416.7    | 414.5                                                                                     | 414.5      | 396.8                                                                                       | 434.3 | 425.5 | 381.4 | 418.9      | 410.1 | 366.0 | 401.2 | 394.6 | 352.7 | 52.5                                                                                |
| 59.1                                                                                 | 350.5    | 346.1                                                                                     | 348.3      | 346.1                                                                                       | 366.0 | 363.8 | 335.1 | 363.8      | 359.4 | 321.9 | 352.7 | 346.1 | 310.9 | 59.1                                                                                |
| 65.6                                                                                 | 299.8    | 297.6                                                                                     | 299.8      | 297.6                                                                                       | 313.1 | 310.9 | 295.4 | 310.9      | 308.6 | 286.6 | 306.4 | 304.2 | 277.8 | 65.6                                                                                |
| 72.2                                                                                 | 262.4    | 260.1                                                                                     | 262.4      | 257.9                                                                                       | 271.2 | 269.0 | 255.7 | 269.0      | 266.8 | 253.5 | 266.8 | 264.6 | 249.1 | 72.2                                                                                |
| 78.7                                                                                 | 233.7    | 229.3                                                                                     | 231.5      | 227.1                                                                                       | 240.3 | 238.1 | 227.1 | 238.1      | 235.9 | 222.7 | 233.7 | 231.5 | 222.7 | 78.7                                                                                |
| 85.3                                                                                 | 208.3    | 205.0                                                                                     | 207.2      | 203.9                                                                                       | 213.8 | 211.6 | 201.7 | 211.6      | 209.4 | 198.4 | 207.2 | 205.0 | 197.3 | 85.3                                                                                |
| 91.9                                                                                 | 188.5    | 185.2                                                                                     | 186.3      | 183.0                                                                                       | 191.8 | 189.6 | 181.9 | 189.6      | 187.4 | 177.5 | 185.2 | 183.0 | 176.4 | 91.9                                                                                |
| 98.4                                                                                 | 172.0    | 167.6                                                                                     | 169.8      | 166.4                                                                                       | 173.1 | 170.9 | 164.2 | 170.9      | 168.7 | 160.9 | 166.4 | 164.2 | 158.7 | 98.4                                                                                |
| 108.3                                                                                | 151.0    | 147.7                                                                                     | 149.1      | 145.8                                                                                       | 151.6 | 148.5 | 143.6 | 148.5      | 146.3 | 139.4 | 145.0 | 141.9 | 138.1 | 108.3                                                                               |
| 111.5                                                                                | -        | 141.1                                                                                     | 142.2      | 138.9                                                                                       | 144.4 | 141.1 | 136.7 | 141.1      | 138.9 | 132.3 | 137.8 | 134.5 | 131.2 | 111.5                                                                               |
| 124.7                                                                                | -        | 120.2                                                                                     | 121.3      | 117.9                                                                                       | 121.3 | 119.0 | 115.7 | 119.0      | 116.8 | 111.3 | 114.6 | 112.4 | 110.2 | 124.7                                                                               |
| 137.8                                                                                | -        | -                                                                                         | 105.8      | 102.1                                                                                       | 104.7 | 102.5 | 99.4  | 101.9      | 99.6  | 95.7  | 97.7  | 95.5  | 93.9  | 137.8                                                                               |
| 141.1                                                                                | -        | -                                                                                         | 102.5      | 98.9                                                                                        | 101.3 | 99.0  | 96.0  | 98.4       | 96.1  | 92.4  | 94.1  | 91.7  | 90.6  | 141.1                                                                               |
| 150.9                                                                                | -        | -                                                                                         | -          | 89.3                                                                                        | 91.1  | 88.6  | 86.4  | 88.0       | 85.5  | 82.5  | 83.3  | 80.5  | 80.7  | 150.9                                                                               |
| 160.8                                                                                | -        | -                                                                                         | -          | 81.4                                                                                        | 82.7  | 80.2  | 78.3  | 79.4       | 76.6  | 74.4  | 74.1  | 71.4  | 72.1  | 160.8                                                                               |
| 164.0                                                                                | -        | -                                                                                         | -          | -                                                                                           | -     | 77.4  | 75.6  | 76.5       | 73.6  | 71.7  | 71.2  | 68.3  | 69.2  | 164.0                                                                               |
| 167.3                                                                                | -        | -                                                                                         | -          | -                                                                                           | -     | 75.0  | 73.5  | 73.9       | 71.2  | 69.3  | 68.7  | 65.8  | 66.7  | 167.3                                                                               |
| 177.2                                                                                | -        | -                                                                                         | -          | -                                                                                           | -     | -     | 67.0  | 66.6       | 63.7  | 62.2  | 61.3  | 58.2  | 59.7  | 177.2                                                                               |
| 183.7                                                                                | -        | -                                                                                         | -          | -                                                                                           | -     | -     | -     | 59.3       | 58.3  | 57.1  | 53.9  | 55.7  | 52.7  | 183.7                                                                               |
| 190.3                                                                                | -        | -                                                                                         | -          | -                                                                                           | -     | -     | -     | -          | 54.5  | 52.9  | 49.8  | 51.6  | 48.5  | 190.3                                                                               |
| 193.6                                                                                | -        | -                                                                                         | -          | -                                                                                           | -     | -     | -     | -          | 52.7  | 50.9  | 48.1  | 49.9  | 46.7  | 193.6                                                                               |
| 203.4                                                                                | -        | -                                                                                         | -          | -                                                                                           | -     | -     | -     | -          | -     | -     | 42.8  | 45.0  | 41.4  | 203.4                                                                               |
| 210.0                                                                                | -        | -                                                                                         | -          | -                                                                                           | -     | -     | -     | -          | -     | -     | -     | 42.1  | 38.1  | 210.0                                                                               |
| 216.5                                                                                | -        | -                                                                                         | -          | -                                                                                           | -     | -     | -     | -          | -     | -     | -     | -     | 34.4  | 216.5                                                                               |
| 219.8                                                                                | -        | -                                                                                         | -          | -                                                                                           | -     | -     | -     | -          | -     | -     | -     | -     | 31.5  | 219.8                                                                               |
| 226.4                                                                                | -        | -                                                                                         | -          | -                                                                                           | -     | -     | -     | -          | -     | -     | -     | -     | 30.0  | 226.4                                                                               |
| 229.7                                                                                | -        | -                                                                                         | -          | -                                                                                           | -     | -     | -     | -          | -     | -     | -     | -     | 33.8  | 229.7                                                                               |
| 236.2                                                                                | -        | -                                                                                         | -          | -                                                                                           | -     | -     | -     | -          | -     | -     | -     | -     | 31.3  | 236.2                                                                               |
|   |          | 408,000 lb                                                                                | 452,000 lb | 496,100 lb                                                                                  |       |       |       |            |       |       |       |       |       |                                                                                     |
|   |          | 66,100 lb                                                                                 | 110,200 lb |                                                                                             |       |       |       |            |       |       |       |       |       |                                                                                     |

|  +  |       |  27.6 ft |       |       |       |       |  32.2 ft/s |       |       |       |       | 360°  |       |       |       |       | ASME B30.5 |       |   |       |   |       |   |                                                                                        |   |       |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|-------|-------|-------|-------|---------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|-------|---|-------|---|-------|---|----------------------------------------------------------------------------------------|---|-------|--|
|  ft                                                                                  |       | 275.6                                                                                     |       | 285.5 |       | 295.3 |                                                                                             | 305.1 |       | 315.0 |       | 324.8 |       | 334.6 |       | 344.5 |            | 354.3 |   | 364.2 |   | 374.0 |   |  ft |   |       |  |
|                                                                                                                                                                       |       | LH_1                                                                                      |       | LH_5  |       | LH_1  |                                                                                             | LH_5  |       | LH_1  |       | LH_5  |       | LH_1  |       | LH_5  |            | LH_1  |   | LH_5  |   | LH_1  |   | LH_5                                                                                   |   |       |  |
| ft                                                                                                                                                                    |       | 1,000 lb                                                                                  |       |       |       |       |                                                                                             |       |       |       |       |       |       |       |       |       |            |       |   |       |   |       |   |                                                                                        |   | ft    |  |
| 36.1                                                                                                                                                                  | 456.4 | 526.9                                                                                     | 513.7 | 421.1 | 509.3 | -     | -                                                                                           | -     | -     | -     | -     | -     | -     | -     | -     | -     | -          | -     | - | -     | - | -     | - | -                                                                                      | - | 36.1  |  |
| 39.4                                                                                                                                                                  | 434.3 | 482.8                                                                                     | 471.8 | 412.3 | 467.4 | 458.6 | 352.7                                                                                       | 449.7 | 438.7 | 321.9 | 429.9 | -     | -     | -     | -     | -     | -          | -     | - | -     | - | -     | - | -                                                                                      | - | 39.4  |  |
| 42.7                                                                                                                                                                  | 404.5 | 447.5                                                                                     | 437.6 | 385.8 | 434.3 | 425.5 | 347.2                                                                                       | 417.8 | 407.9 | 316.4 | 400.1 | 390.2 | 297.6 | 381.4 | 343.9 | 271.2 | 324.1      | 42.7  |   |       |   |       |   |                                                                                        |   | 42.7  |  |
| 45.9                                                                                                                                                                  | 374.8 | 412.3                                                                                     | 403.4 | 359.4 | 401.2 | 392.4 | 341.7                                                                                       | 385.8 | 377.0 | 310.9 | 370.4 | 361.6 | 295.4 | 354.9 | 337.3 | 269.0 | 317.5      | 45.9  |   |       |   |       |   |                                                                                        |   | 45.9  |  |
| 52.5                                                                                                                                                                  | 328.5 | 357.1                                                                                     | 348.3 | 315.3 | 348.3 | 341.7 | 304.2                                                                                       | 335.1 | 328.5 | 291.0 | 321.9 | 315.3 | 280.0 | 308.6 | 308.6 | 262.4 | 302.0      | 52.5  |   |       |   |       |   |                                                                                        |   | 52.5  |  |
| 59.1                                                                                                                                                                  | 291.0 | 313.1                                                                                     | 306.4 | 277.8 | 306.4 | 299.8 | 269.0                                                                                       | 295.4 | 288.8 | 257.9 | 282.2 | 277.8 | 246.9 | 271.2 | 273.4 | 238.1 | 269.0      | 59.1  |   |       |   |       |   |                                                                                        |   | 59.1  |  |
| 65.6                                                                                                                                                                  | 260.1 | 277.8                                                                                     | 271.2 | 249.1 | 273.4 | 266.8 | 240.3                                                                                       | 262.4 | 255.7 | 231.5 | 251.3 | 244.7 | 222.7 | 240.3 | 242.5 | 212.7 | 238.1      | 65.6  |   |       |   |       |   |                                                                                        |   | 65.6  |  |
| 72.2                                                                                                                                                                  | 233.7 | 246.9                                                                                     | 242.5 | 224.9 | 244.7 | 238.1 | 217.2                                                                                       | 233.7 | 229.3 | 208.3 | 224.9 | 220.5 | 199.5 | 216.1 | 218.3 | 190.7 | 213.8      | 72.2  |   |       |   |       |   |                                                                                        |   | 72.2  |  |
| 78.7                                                                                                                                                                  | 211.6 | 222.7                                                                                     | 218.3 | 202.8 | 220.5 | 215.0 | 196.2                                                                                       | 211.6 | 206.1 | 188.5 | 201.7 | 197.3 | 180.8 | 194.0 | 196.2 | 173.1 | 192.9      | 78.7  |   |       |   |       |   |                                                                                        |   | 78.7  |  |
| 85.3                                                                                                                                                                  | 192.9 | 198.4                                                                                     | 196.2 | 185.2 | 199.5 | 195.1 | 178.6                                                                                       | 190.7 | 186.3 | 170.9 | 183.0 | 177.5 | 164.2 | 174.2 | 177.5 | 156.5 | 174.2      | 85.3  |   |       |   |       |   |                                                                                        |   | 85.3  |  |
| 91.9                                                                                                                                                                  | 174.2 | 176.4                                                                                     | 174.2 | 168.7 | 177.5 | 175.3 | 163.1                                                                                       | 173.1 | 168.7 | 156.5 | 165.3 | 160.9 | 148.8 | 157.6 | 160.9 | 142.2 | 157.6      | 91.9  |   |       |   |       |   |                                                                                        |   | 91.9  |  |
| 98.4                                                                                                                                                                  | 156.5 | 157.6                                                                                     | 155.4 | 153.2 | 158.7 | 156.5 | 149.9                                                                                       | 156.5 | 154.3 | 143.3 | 149.9 | 146.6 | 136.7 | 143.3 | 146.6 | 130.1 | 143.3      | 98.4  |   |       |   |       |   |                                                                                        |   | 98.4  |  |
| 111.5                                                                                                                                                                 | 129.0 | 127.9                                                                                     | 125.7 | 125.7 | 129.0 | 126.8 | 124.6                                                                                       | 126.8 | 124.6 | 120.2 | 122.4 | 120.2 | 114.6 | 117.9 | 122.4 | 108.7 | 119.0      | 111.5 |   |       |   |       |   |                                                                                        |   | 111.5 |  |
| 124.7                                                                                                                                                                 | 107.8 | 105.4                                                                                     | 103.0 | 104.5 | 106.7 | 104.3 | 103.6                                                                                       | 103.8 | 101.4 | 100.3 | 99.2  | 96.6  | 97.4  | 96.6  | 100.8 | 91.5  | 99.2       | 124.7 |   |       |   |       |   |                                                                                        |   | 124.7 |  |
| 137.8                                                                                                                                                                 | 91.1  | 86.4                                                                                      | 84.0  | 87.5  | 87.7  | 85.1  | 86.4                                                                                        | 84.7  | 82.2  | 82.5  | 80.0  | 77.6  | 80.2  | 77.4  | 81.6  | 76.5  | 80.0       | 137.8 |   |       |   |       |   |                                                                                        |   | 137.8 |  |
| 150.9                                                                                                                                                                 | 77.4  | 71.2                                                                                      | 68.6  | 73.2  | 72.3  | 69.9  | 72.1                                                                                        | 69.4  | 66.8  | 68.1  | 64.6  | 62.2  | 65.9  | 61.9  | 66.1  | 61.9  | 64.4       | 150.9 |   |       |   |       |   |                                                                                        |   | 150.9 |  |
| 164.0                                                                                                                                                                 | 65.5  | 58.6                                                                                      | 56.0  | 61.5  | 59.7  | 57.3  | 60.2                                                                                        | 56.7  | 54.2  | 56.2  | 52.0  | 49.4  | 54.0  | 49.2  | 53.4  | 49.8  | 51.8       | 164.0 |   |       |   |       |   |                                                                                        |   | 164.0 |  |
| 177.2                                                                                                                                                                 | 55.8  | 48.3                                                                                      | 45.6  | 51.6  | 49.4  | 46.7  | 50.3                                                                                        | 46.1  | 43.7  | 46.3  | 41.4  | 38.8  | 43.9  | 38.4  | 42.8  | 39.9  | 41.0       | 177.2 |   |       |   |       |   |                                                                                        |   | 177.2 |  |
| 190.3                                                                                                                                                                 | 47.6  | 39.5                                                                                      | 36.8  | 43.4  | 40.6  | 37.9  | 41.9                                                                                        | 37.3  | 34.6  | 37.9  | 32.4  | 29.8  | 35.5  | 29.5  | 33.7  | 31.5  | 32.0       | 190.3 |   |       |   |       |   |                                                                                        |   | 190.3 |  |
| 203.4                                                                                                                                                                 | 40.6  | 32.0                                                                                      | 29.1  | 36.2  | 32.8  | 30.2  | 34.8                                                                                        | 29.5  | 26.9  | 30.6  | 24.7  | 22.0  | 28.2  | 21.6  | 26.0  | 24.3  | 24.3       | 203.4 |   |       |   |       |   |                                                                                        |   | 203.4 |  |
| 216.5                                                                                                                                                                 | 34.6  | 25.6                                                                                      | 22.7  | 30.2  | 26.5  | 23.8  | 28.7                                                                                        | 22.9  | 20.3  | 24.5  | 18.1  | 15.4  | 22.0  | 15.0  | 19.2  | 17.9  | 17.4       | 216.5 |   |       |   |       |   |                                                                                        |   | 216.5 |  |
| 229.7                                                                                                                                                                 | 29.3  | 19.8                                                                                      | 17.2  | 24.9  | 20.7  | 18.1  | 23.4                                                                                        | 17.2  | 14.6  | 19.2  | 12.3  | 9.7   | 16.5  | 9.0   | 13.4  | 12.3  | 11.7       | 229.7 |   |       |   |       |   |                                                                                        |   | 229.7 |  |
| 236.2                                                                                                                                                                 | 27.1  | 17.5                                                                                      | 14.6  | 22.6  | 18.3  | 15.6  | 20.9                                                                                        | 14.6  | 12.0  | 16.8  | 9.7   | -     | 14.1  | -     | -     | 9.9   | 9.0        | 236.2 |   |       |   |       |   |                                                                                        |   | 236.2 |  |
| 242.8                                                                                                                                                                 | 24.9  | 15.2                                                                                      | 12.3  | 20.3  | 15.9  | 13.2  | 18.5                                                                                        | 12.1  | 9.5   | 14.3  | -     | -     | 11.7  | -     | -     | -     | -          | 242.8 |   |       |   |       |   |                                                                                        |   | 242.8 |  |
| 246.1                                                                                                                                                                 | 23.8  | 14.1                                                                                      | 11.2  | 19.3  | 14.8  | 12.1  | 17.5                                                                                        | 11.0  | -     | 13.3  | -     | -     | 10.6  | -     | -     | -     | -          | 246.1 |   |       |   |       |   |                                                                                        |   | 246.1 |  |
| 249.3                                                                                                                                                                 | -     | -                                                                                         | 10.1  | 18.4  | 13.7  | 11.0  | 16.5                                                                                        | 9.9   | -     | 12.2  | -     | -     | 9.5   | -     | -     | -     | -          | 249.3 |   |       |   |       |   |                                                                                        |   | 249.3 |  |
| 252.6                                                                                                                                                                 | -     | -                                                                                         | 9.0   | 17.5  | 12.7  | 9.9   | 15.5                                                                                        | 8.8   | -     | 11.2  | -     | -     | -     | -     | -     | -     | -          | 252.6 |   |       |   |       |   |                                                                                        |   | 252.6 |  |
| 255.9                                                                                                                                                                 | -     | -                                                                                         | -     | 16.5  | 11.7  | 8.8   | 14.6                                                                                        | -     | -     | 10.1  | -     | -     | -     | -     | -     | -     | -          | 255.9 |   |       |   |       |   |                                                                                        |   | 255.9 |  |
| 259.2                                                                                                                                                                 | -     | -                                                                                         | -     | 15.7  | 10.7  | -     | 13.6                                                                                        | -     | -     | 9.3   | -     | -     | -     | -     | -     | -     | -          | 259.2 |   |       |   |       |   |                                                                                        |   | 259.2 |  |
| 262.5                                                                                                                                                                 | -     | -                                                                                         | -     | 14.8  | 9.7   | -     | 12.7                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -     | -          | 262.5 |   |       |   |       |   |                                                                                        |   | 262.5 |  |
| 269.0                                                                                                                                                                 | -     | -                                                                                         | -     | -     | -     | -     | 10.8                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -     | -          | 269.0 |   |       |   |       |   |                                                                                        |   | 269.0 |  |
| 275.6                                                                                                                                                                 | -     | -                                                                                         | -     | -     | -     | -     | 9.3                                                                                         | -     | -     | -     | -     | -     | -     | -     | -     | -     | -          | 275.6 |   |       |   |       |   |                                                                                        |   | 275.6 |  |

 408,000 lb

 452,000 lb

 496,100 lb

 66,100 lb

 110,200 lb

|     |       |  27.6 ft |            |       |       |       |       |       |       |       |       |  32.2 ft/s |       |       |       |                                                                                     |       |       |       |    |  | 360° |  |  |  | ASME B30.5 |  |  |  |
|--------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------------------------------------------------------------------------------|-------|-------|-------|-------------------------------------------------------------------------------------|-------|-------|-------|----|--|------|--|--|--|------------|--|--|--|
|  ft |       | 118.1                                                                                     | 137.8      | 157.5 | 177.2 |       | 187.0 | 196.9 | 206.7 | 216.5 | 226.4 | 236.2                                                                                       | 246.1 | 255.9 | 265.8 |  |       |       |       |    |  |      |  |  |  |            |  |  |  |
|                                                                                      |       | LH_1                                                                                      |            |       |       | LH_5  | LH_1  | LH_5  | LH_1  | LH_5  | LH_1  | LH_5                                                                                        | LH_1  | LH_5  | LH_1  | LH_5                                                                                |       |       |       |    |  |      |  |  |  |            |  |  |  |
| ft                                                                                   |       | 1,000 lb                                                                                  |            |       |       |       |       |       |       |       |       |                                                                                             |       |       |       |                                                                                     |       |       |       | ft |  |      |  |  |  |            |  |  |  |
| 23.0                                                                                 | 765.0 | 765.0                                                                                     | -          | -     | -     | -     | -     | -     | -     | -     | -     | -                                                                                           | -     | -     | -     | -                                                                                   | -     | -     | 23.0  |    |  |      |  |  |  |            |  |  |  |
| 26.2                                                                                 | 765.0 | 745.2                                                                                     | 701.1      | 654.8 | 696.7 | 674.6 | -     | -     | -     | -     | -     | -                                                                                           | -     | -     | -     | -                                                                                   | -     | -     | 26.2  |    |  |      |  |  |  |            |  |  |  |
| 29.5                                                                                 | 694.5 | 650.4                                                                                     | 615.1      | 579.8 | 610.7 | 593.0 | 546.7 | 577.6 | 560.0 | 515.9 | 544.5 | 531.3                                                                                       | -     | -     | -     | -                                                                                   | -     | -     | 29.5  |    |  |      |  |  |  |            |  |  |  |
| 32.8                                                                                 | 610.7 | 575.4                                                                                     | 546.7      | 518.1 | 542.3 | 526.9 | 489.4 | 513.7 | 500.4 | 465.2 | 487.2 | 474.0                                                                                       | 440.9 | 463.0 | 449.7 | 418.9                                                                               | 438.7 | 427.7 | 32.8  |    |  |      |  |  |  |            |  |  |  |
| 39.4                                                                                 | 491.6 | 465.2                                                                                     | 447.5      | 425.5 | 438.7 | 429.9 | 405.7 | 418.9 | 410.1 | 385.8 | 399.0 | 390.2                                                                                       | 368.2 | 381.4 | 370.4 | 350.5                                                                               | 361.6 | 352.7 | 39.4  |    |  |      |  |  |  |            |  |  |  |
| 45.9                                                                                 | 401.2 | 388.0                                                                                     | 377.0      | 359.4 | 368.2 | 359.4 | 343.9 | 352.7 | 343.9 | 328.5 | 335.1 | 328.5                                                                                       | 313.1 | 321.9 | 313.1 | 299.8                                                                               | 306.4 | 297.6 | 45.9  |    |  |      |  |  |  |            |  |  |  |
| 52.5                                                                                 | 326.3 | 324.1                                                                                     | 324.1      | 310.9 | 315.3 | 306.4 | 295.4 | 302.0 | 295.4 | 284.4 | 288.8 | 282.2                                                                                       | 271.2 | 275.6 | 269.0 | 260.1                                                                               | 262.4 | 255.7 | 52.5  |    |  |      |  |  |  |            |  |  |  |
| 59.1                                                                                 | 273.4 | 271.2                                                                                     | 271.2      | 269.0 | 262.4 | 260.1 | 260.1 | 262.4 | 255.7 | 249.1 | 251.3 | 244.7                                                                                       | 238.1 | 240.3 | 233.7 | 229.3                                                                               | 227.1 | 222.7 | 59.1  |    |  |      |  |  |  |            |  |  |  |
| 65.6                                                                                 | 233.7 | 231.5                                                                                     | 233.7      | 229.3 | 222.7 | 220.5 | 227.1 | 222.7 | 220.5 | 220.5 | 218.3 | 215.0                                                                                       | 212.7 | 210.5 | 205.0 | 202.8                                                                               | 200.6 | 195.1 | 65.6  |    |  |      |  |  |  |            |  |  |  |
| 72.2                                                                                 | 203.9 | 200.6                                                                                     | 202.8      | 199.5 | 192.9 | 191.8 | 197.3 | 191.8 | 189.6 | 195.1 | 187.4 | 185.2                                                                                       | 189.6 | 185.2 | 181.9 | 180.8                                                                               | 176.4 | 172.0 | 72.2  |    |  |      |  |  |  |            |  |  |  |
| 78.7                                                                                 | 179.7 | 176.4                                                                                     | 178.6      | 175.3 | 168.7 | 166.4 | 173.1 | 166.4 | 165.3 | 169.8 | 163.1 | 160.9                                                                                       | 168.7 | 160.9 | 157.6 | 163.1                                                                               | 156.5 | 153.2 | 78.7  |    |  |      |  |  |  |            |  |  |  |
| 85.3                                                                                 | 159.8 | 156.5                                                                                     | 158.7      | 155.4 | 148.8 | 146.6 | 153.2 | 146.6 | 144.4 | 149.9 | 143.3 | 141.1                                                                                       | 148.8 | 140.0 | 137.8 | 146.6                                                                               | 136.7 | 134.5 | 85.3  |    |  |      |  |  |  |            |  |  |  |
| 91.9                                                                                 | 144.4 | 141.1                                                                                     | 142.2      | 138.9 | 132.3 | 130.1 | 136.7 | 130.1 | 127.9 | 133.4 | 126.8 | 124.6                                                                                       | 132.3 | 123.5 | 121.3 | 130.1                                                                               | 120.2 | 117.9 | 91.9  |    |  |      |  |  |  |            |  |  |  |
| 98.4                                                                                 | 130.1 | 126.8                                                                                     | 129.0      | 125.7 | 119.0 | 116.8 | 123.5 | 116.8 | 114.6 | 119.0 | 112.4 | 110.2                                                                                       | 117.9 | 110.2 | 107.4 | 115.7                                                                               | 106.3 | 103.8 | 98.4  |    |  |      |  |  |  |            |  |  |  |
| 108.3                                                                                | 113.5 | 111.1                                                                                     | 112.6      | 109.1 | 102.7 | 100.5 | 106.9 | 100.3 | 98.1  | 103.2 | 96.1  | 93.7                                                                                        | 101.6 | 93.0  | 89.8  | 99.2                                                                                | 88.0  | 85.5  | 108.3 |    |  |      |  |  |  |            |  |  |  |
| 111.5                                                                                | -     | 105.8                                                                                     | 107.1      | 103.6 | 97.2  | 95.0  | 101.4 | 94.8  | 92.6  | 97.9  | 90.6  | 88.2                                                                                        | 96.1  | 87.3  | 84.0  | 93.7                                                                                | 82.7  | 80.0  | 111.5 |    |  |      |  |  |  |            |  |  |  |
| 124.7                                                                                | -     | 89.5                                                                                      | 90.6       | 87.1  | 80.7  | 78.3  | 84.7  | 77.8  | 75.2  | 80.9  | 73.0  | 70.1                                                                                        | 79.4  | 69.4  | 65.9  | 76.1                                                                                | 64.6  | 61.9  | 124.7 |    |  |      |  |  |  |            |  |  |  |
| 137.8                                                                                | -     | -                                                                                         | 78.0       | 74.3  | 67.2  | 64.4  | 71.4  | 63.9  | 61.3  | 67.2  | 58.9  | 56.2                                                                                        | 65.3  | 55.3  | 51.8  | 61.9                                                                                | 50.3  | 47.6  | 137.8 |    |  |      |  |  |  |            |  |  |  |
| 141.1                                                                                | -     | -                                                                                         | 75.4       | 71.7  | 64.6  | 61.7  | 68.7  | 61.2  | 58.5  | 64.5  | 56.1  | 53.4                                                                                        | 62.4  | 52.4  | 48.7  | 59.1                                                                                | 47.2  | 44.8  | 141.1 |    |  |      |  |  |  |            |  |  |  |
| 150.9                                                                                | -     | -                                                                                         | -          | 63.9  | 56.7  | 53.6  | 60.6  | 52.9  | 50.0  | 56.2  | 47.8  | 45.0                                                                                        | 54.0  | 43.9  | 40.3  | 50.5                                                                                | 39.0  | 36.2  | 150.9 |    |  |      |  |  |  |            |  |  |  |
| 160.8                                                                                | -     | -                                                                                         | -          | 57.5  | 50.0  | 47.1  | 54.0  | 46.1  | 43.4  | 49.4  | 40.9  | 38.2                                                                                        | 47.1  | 37.1  | 33.4  | 43.5                                                                                | 31.9  | 29.2  | 160.8 |    |  |      |  |  |  |            |  |  |  |
| 164.0                                                                                | -     | -                                                                                         | -          | -     | -     | 45.0  | 51.8  | 43.9  | 41.2  | 47.2  | 38.8  | 35.9                                                                                        | 44.8  | 34.8  | 31.1  | 41.2                                                                                | 29.5  | 26.9  | 164.0 |    |  |      |  |  |  |            |  |  |  |
| 167.3                                                                                | -     | -                                                                                         | -          | -     | -     | 43.2  | 50.0  | 42.0  | 39.4  | 45.3  | 36.9  | 34.1                                                                                        | 42.8  | 32.9  | 29.2  | 39.3                                                                                | 27.6  | 24.7  | 167.3 |    |  |      |  |  |  |            |  |  |  |
| 177.2                                                                                | -     | -                                                                                         | -          | -     | -     | -     | 44.5  | 36.8  | 33.7  | 39.7  | 31.3  | 28.4                                                                                        | 37.3  | 27.1  | 23.6  | 33.5                                                                                | 21.8  | 19.2  | 177.2 |    |  |      |  |  |  |            |  |  |  |
| 183.7                                                                                | -     | -                                                                                         | -          | -     | -     | -     | -     | -     | 30.6  | 36.6  | 28.2  | 25.2                                                                                        | 34.1  | 23.8  | 20.4  | 30.3                                                                                | 18.6  | 15.9  | 183.7 |    |  |      |  |  |  |            |  |  |  |
| 190.3                                                                                | -     | -                                                                                         | -          | -     | -     | -     | -     | -     | -     | 33.5  | 25.1  | 22.3                                                                                        | 30.9  | 20.9  | 17.2  | 27.1                                                                                | 15.4  | 12.6  | 190.3 |    |  |      |  |  |  |            |  |  |  |
| 193.6                                                                                | -     | -                                                                                         | -          | -     | -     | -     | -     | -     | -     | 32.2  | 23.8  | 21.0                                                                                        | 29.5  | 19.6  | 15.9  | 25.7                                                                                | 14.1  | 11.1  | 193.6 |    |  |      |  |  |  |            |  |  |  |
| 196.9                                                                                | -     | -                                                                                         | -          | -     | -     | -     | -     | -     | -     | -     | -     | 19.7                                                                                        | 28.2  | 18.3  | 14.6  | 24.4                                                                                | 12.7  | 9.7   | 196.9 |    |  |      |  |  |  |            |  |  |  |
| 203.4                                                                                | -     | -                                                                                         | -          | -     | -     | -     | -     | -     | -     | -     | -     | 17.2                                                                                        | 25.6  | 15.7  | 11.9  | 21.6                                                                                | 9.9   | -     | 203.4 |    |  |      |  |  |  |            |  |  |  |
| 210.0                                                                                | -     | -                                                                                         | -          | -     | -     | -     | -     | -     | -     | -     | -     | -                                                                                           | 23.4  | 13.2  | 9.5   | 19.3                                                                                | -     | -     | 210.0 |    |  |      |  |  |  |            |  |  |  |
| 216.5                                                                                | -     | -                                                                                         | -          | -     | -     | -     | -     | -     | -     | -     | -     | -                                                                                           | -     | -     | -     | 17.0                                                                                | -     | -     | 216.5 |    |  |      |  |  |  |            |  |  |  |
| 226.4                                                                                | -     | -                                                                                         | -          | -     | -     | -     | -     | -     | -     | -     | -     | -                                                                                           | -     | -     | -     | 14.1                                                                                | -     | -     | 226.4 |    |  |      |  |  |  |            |  |  |  |
|   |       | 275,600 lb                                                                                | 363,800 lb |       |       |       |       |       |       |       |       |                                                                                             |       |       |       |                                                                                     |       |       |       |    |  |      |  |  |  |            |  |  |  |



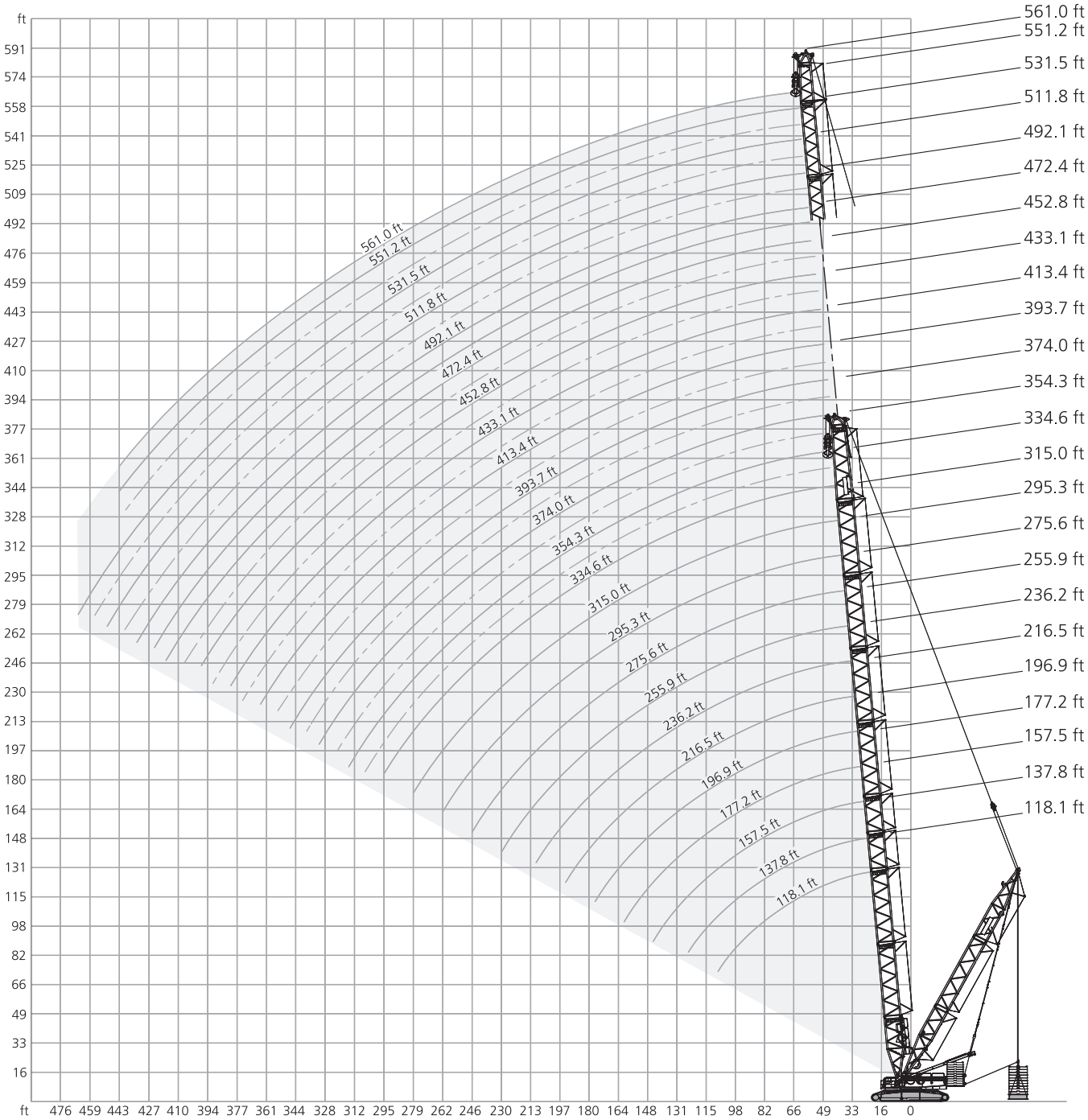
275,600 lb 363,800 lb

|       |  | 27.6 ft  |       |       |       | 32.2 ft/s |       |       |       | 360°  |       |       |       | ASME B30.5 |       |       |       |
|-------|--|----------|-------|-------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|------------|-------|-------|-------|
|       |  | ft       |       |       |       | ft        |       |       |       | ft    |       |       |       | ft         |       |       |       |
|       |  | LH_1     | LH_5  | LH_1  | LH_5  | LH_1      | LH_5  | LH_1  | LH_5  | LH_1  | LH_5  | LH_1  | LH_5  | LH_1       | LH_5  | LH_1  | LH_5  |
|       |  | 1,000 lb |       |       |       |           |       |       |       |       |       |       |       |            |       |       |       |
| ft    |  | 366.0    | 379.2 | 370.4 | 348.3 | 366.0     | -     | -     | -     | -     | -     | -     | -     | -          | -     | -     | 36.1  |
| 36.1  |  | 366.0    | 379.2 | 370.4 | 348.3 | 366.0     | -     | -     | -     | -     | -     | -     | -     | -          | -     | -     | 36.1  |
| 39.4  |  | 337.3    | 346.1 | 337.3 | 321.9 | 335.1     | 326.3 | 308.6 | 319.7 | 313.1 | 293.2 | 304.2 | -     | -          | -     | -     | 39.4  |
| 42.7  |  | 313.1    | 319.7 | 310.9 | 298.7 | 309.7     | 302.0 | 286.6 | 295.4 | 288.8 | 273.4 | 282.2 | 273.4 | 260.1      | 266.8 | 269.0 | 42.7  |
| 45.9  |  | 288.8    | 293.2 | 284.4 | 275.6 | 284.4     | 277.8 | 264.6 | 271.2 | 264.6 | 253.5 | 260.1 | 253.5 | 240.3      | 246.9 | 246.9 | 45.9  |
| 52.5  |  | 251.3    | 251.3 | 244.7 | 240.3 | 244.7     | 238.1 | 231.5 | 233.7 | 229.3 | 220.5 | 222.7 | 218.3 | 210.5      | 212.7 | 215.0 | 52.5  |
| 59.1  |  | 220.5    | 218.3 | 212.7 | 211.6 | 213.8     | 208.3 | 203.9 | 203.9 | 199.5 | 194.0 | 194.0 | 189.6 | 185.2      | 185.2 | 187.4 | 59.1  |
| 65.6  |  | 197.3    | 190.7 | 186.3 | 188.5 | 188.5     | 183.0 | 180.8 | 179.7 | 174.2 | 172.0 | 169.8 | 165.3 | 164.2      | 162.0 | 164.2 | 65.6  |
| 72.2  |  | 176.4    | 168.7 | 164.2 | 167.6 | 166.4     | 162.0 | 158.7 | 153.2 | 154.3 | 149.9 | 145.5 | 146.6 | 142.2      | 144.4 | 138.9 | 72.2  |
| 78.7  |  | 158.7    | 149.9 | 145.5 | 151.0 | 147.7     | 143.3 | 145.5 | 140.0 | 136.7 | 137.8 | 132.3 | 127.9 | 131.2      | 124.6 | 127.9 | 78.7  |
| 85.3  |  | 143.3    | 133.4 | 129.0 | 136.7 | 132.3     | 127.9 | 131.2 | 124.6 | 121.3 | 123.5 | 117.9 | 113.5 | 117.9      | 110.2 | 113.5 | 85.3  |
| 91.9  |  | 130.1    | 117.9 | 115.7 | 123.5 | 117.9     | 114.6 | 117.9 | 111.3 | 108.5 | 111.3 | 104.9 | 101.2 | 106.0      | 98.3  | 101.9 | 91.9  |
| 98.4  |  | 115.7    | 103.6 | 101.0 | 112.4 | 104.9     | 102.3 | 107.8 | 100.5 | 96.8  | 101.6 | 93.5  | 89.9  | 95.7       | 87.1  | 90.8  | 98.4  |
| 111.5 |  | 93.7     | 79.6  | 76.9  | 90.4  | 80.9      | 78.3  | 89.3  | 78.0  | 75.6  | 83.6  | 73.4  | 71.0  | 78.0       | 68.3  | 72.5  | 111.5 |
| 124.7 |  | 76.1     | 61.3  | 58.9  | 72.1  | 62.6      | 60.2  | 71.0  | 59.7  | 57.1  | 67.2  | 55.1  | 52.5  | 63.9       | 52.5  | 56.7  | 124.7 |
| 137.8 |  | 61.9     | 47.2  | 44.5  | 58.0  | 48.3      | 45.6  | 56.7  | 45.4  | 42.8  | 52.9  | 40.8  | 38.1  | 50.7       | 37.9  | 42.1  | 137.8 |
| 150.9 |  | 50.5     | 35.7  | 33.1  | 46.3  | 36.8      | 34.2  | 45.2  | 33.7  | 31.1  | 41.2  | 29.1  | 26.5  | 39.0       | 26.2  | 30.4  | 150.9 |
| 164.0 |  | 41.0     | 26.2  | 23.6  | 37.0  | 27.3      | 24.7  | 35.7  | 24.3  | 21.6  | 31.7  | 19.4  | 17.0  | 29.5       | 16.5  | 20.9  | 164.0 |
| 173.9 |  | 35.2     | 20.3  | 17.6  | 31.1  | 21.4      | 18.7  | 29.8  | 18.3  | 15.7  | 25.8  | 13.4  | 10.9  | 23.4       | 10.4  | 14.8  | 173.9 |
| 177.2 |  | 33.3     | 18.3  | 15.7  | 29.1  | 19.4      | 16.8  | 27.8  | 16.3  | 13.7  | 23.8  | 11.5  | 8.8   | 21.4       | -     | 12.8  | 177.2 |
| 180.4 |  | 31.6     | 16.6  | 14.0  | 27.4  | 17.7      | 15.1  | 26.0  | 14.6  | 11.9  | 22.2  | 9.7   | -     | 19.7       | -     | 11.0  | 180.4 |
| 183.7 |  | 30.0     | 15.0  | 12.3  | 25.8  | 16.1      | 13.4  | 24.3  | 12.9  | 10.1  | 20.5  | -     | -     | 18.1       | -     | 9.3   | 183.7 |
| 190.3 |  | 26.7     | 11.7  | 9.0   | 22.5  | 12.8      | 10.1  | 21.2  | 9.5   | -     | 17.2  | -     | -     | 14.8       | -     | 10.6  | 190.3 |
| 193.6 |  | 25.3     | 10.3  | -     | 21.1  | 11.4      | -     | 19.7  | -     | -     | 15.7  | -     | -     | 13.3       | -     | 9.0   | 193.6 |
| 196.9 |  | 23.9     | 8.8   | -     | 19.7  | 9.9       | -     | 18.3  | -     | -     | 14.2  | -     | -     | 11.8       | -     | -     | 196.9 |
| 203.4 |  | 21.2     | -     | -     | 17.0  | -         | -     | 15.4  | -     | -     | 11.2  | -     | -     | 8.8        | -     | -     | 203.4 |
| 206.7 |  | 20.0     | -     | -     | 15.8  | -         | -     | 14.2  | -     | -     | 10.1  | -     | -     | -          | -     | -     | 206.7 |
| 216.5 |  | 16.3     | -     | -     | 12.1  | -         | -     | 10.6  | -     | -     | -     | -     | -     | -          | -     | -     | 216.5 |
| 219.8 |  | 15.3     | -     | -     | 11.0  | -         | -     | 9.5   | -     | -     | -     | -     | -     | -          | -     | -     | 219.8 |
| 226.4 |  | 13.3     | -     | -     | 8.8   | -         | -     | -     | -     | -     | -     | -     | -     | -          | -     | -     | 226.4 |
| 229.7 |  | 12.3     | -     | -     | -     | -         | -     | -     | -     | -     | -     | -     | -     | -          | -     | -     | 229.7 |
| 242.8 |  | 8.8      | -     | -     | -     | -         | -     | -     | -     | -     | -     | -     | -     | -          | -     | -     | 242.8 |

363,800 lb







| 496,100 lb +  |  | 110,200 lb  |        | 36.1-68.9 ft  |  | 27.6 ft  |        | 32.2 ft/s  |  | 360°                                                                                |  | ASME B30.5 |  |
|------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|------------|--|
|               |  | 137.8 ft                                                                                     |        |                                                                                                |  | 157.5 ft                                                                                    |        |                                                                                               |  |                                                                                     |  |            |  |
|                                                                                                |  | SSL_2                                                                                        |        | SSL_3                                                                                          |  | SSL_2                                                                                       |        | SSL_3                                                                                         |  |                                                                                     |  |            |  |
|               |  | 0 lb                                                                                         |        | 0 lb -716.6 klb                                                                                |  | 0 lb                                                                                        |        | 0 lb -716.6 klb                                                                               |  |  |  |            |  |
| ft                                                                                             |  | 1,000 lb                                                                                     |        |                                                                                                |  |                                                                                             |        |                                                                                               |  |                                                                                     |  | ft         |  |
| 29.5                                                                                           |  | 976.6                                                                                        | -      | -                                                                                              |  | 941.4                                                                                       | -      | -                                                                                             |  |                                                                                     |  | 29.5       |  |
| 32.8                                                                                           |  | 877.4                                                                                        | -      | -                                                                                              |  | 842.2                                                                                       | -      | -                                                                                             |  |                                                                                     |  | 32.8       |  |
| 36.1                                                                                           |  | 792.6                                                                                        | -      | -                                                                                              |  | 761.7                                                                                       | 1353.6 | 1353.6                                                                                        |  |                                                                                     |  | 36.1       |  |
| 39.4                                                                                           |  | 714.3                                                                                        | -      | -                                                                                              |  | 690.0                                                                                       | 1362.5 | 1362.5                                                                                        |  |                                                                                     |  | 39.4       |  |
| 45.9                                                                                           |  | 593.0                                                                                        | -      | -                                                                                              |  | 584.2                                                                                       | 1274.3 | 1272.1                                                                                        |  |                                                                                     |  | 45.9       |  |
| 52.5                                                                                           |  | 489.4                                                                                        | 1139.8 | -                                                                                              |  | 491.6                                                                                       | 1203.7 | 1203.7                                                                                        |  |                                                                                     |  | 52.5       |  |
| 59.1                                                                                           |  | 414.5                                                                                        | 1091.3 | -                                                                                              |  | 412.3                                                                                       | 1084.7 | 1082.5                                                                                        |  |                                                                                     |  | 59.1       |  |
| 65.6                                                                                           |  | 354.9                                                                                        | 992.1  | -                                                                                              |  | 352.7                                                                                       | 985.5  | 983.3                                                                                         |  |                                                                                     |  | 65.6       |  |
| 72.2                                                                                           |  | 310.9                                                                                        | 908.3  | -                                                                                              |  | 306.4                                                                                       | 901.7  | 899.5                                                                                         |  |                                                                                     |  | 72.2       |  |
| 78.7                                                                                           |  | 273.4                                                                                        | 835.6  | -                                                                                              |  | 269.0                                                                                       | 831.1  | 828.9                                                                                         |  |                                                                                     |  | 78.7       |  |
| 85.3                                                                                           |  | 244.7                                                                                        | 776.0  | -                                                                                              |  | 240.3                                                                                       | 769.4  | 767.2                                                                                         |  |                                                                                     |  | 85.3       |  |
| 91.9                                                                                           |  | 220.5                                                                                        | 709.9  | -                                                                                              |  | 216.1                                                                                       | 714.3  | 712.1                                                                                         |  |                                                                                     |  | 91.9       |  |
| 98.4                                                                                           |  | 200.6                                                                                        | 639.3  | -                                                                                              |  | 196.2                                                                                       | 663.6  | 661.4                                                                                         |  |                                                                                     |  | 98.4       |  |
| 111.5                                                                                          |  | 170.5                                                                                        | 529.8  | -                                                                                              |  | 165.3                                                                                       | 573.9  | 573.2                                                                                         |  |                                                                                     |  | 111.5      |  |
| 124.7                                                                                          |  | 143.3                                                                                        | 443.1  | -                                                                                              |  | 140.0                                                                                       | 485.8  | 485.0                                                                                         |  |                                                                                     |  | 124.7      |  |
| 137.8                                                                                          |  | -                                                                                            | -      | -                                                                                              |  | 120.2                                                                                       | 410.1  | 410.1                                                                                         |  |                                                                                     |  | 137.8      |  |
| 144.4                                                                                          |  | -                                                                                            | -      | -                                                                                              |  | 112.4                                                                                       | 372.6  | 372.6                                                                                         |  |                                                                                     |  | 144.4      |  |

|    |       | 177.2 ft |        |                 |       | 196.9 ft |        |        |                 |        |       |    |
|-------------------------------------------------------------------------------------|-------|----------|--------|-----------------|-------|----------|--------|--------|-----------------|--------|-------|----|
|                                                                                     |       | SSL_1    |        | SSL_2           | SSL_3 | SSL_4    | SSL_1  |        | SSL_2           | SSL_3  | SSL_4 |    |
|  |       | 0 lb     |        | 0 lb -716.6 klb |       |          | 0 lb   |        | 0 lb -716.6 klb |        |       |    |
| ft                                                                                  |       | 1,000 lb |        |                 |       |          |        |        |                 |        |       | ft |
| 26.2                                                                                | 956.8 | 1433.0   | -      | 1393.3          |       | -        | -      | -      | -               | -      | 26.2  |    |
| 29.5                                                                                | 846.6 | 1433.0   | -      | 1393.3          |       | 806.9    | 1258.8 | 1258.8 | 1258.8          | 1258.8 | 29.5  |    |
| 32.8                                                                                | 758.4 | 1433.0   | -      | 1393.3          |       | 734.1    | 1258.8 | 1258.8 | 1258.8          | 1258.8 | 32.8  |    |
| 36.1                                                                                | 698.9 | 1433.0   | 1375.7 | 1393.3          |       | 671.3    | 1258.8 | 1258.8 | 1258.8          | 1258.8 | 36.1  |    |
| 39.4                                                                                | 637.1 | 1433.0   | 1393.3 | 1393.3          |       | 608.5    | 1258.8 | 1258.8 | 1258.8          | 1258.8 | 39.4  |    |
| 45.9                                                                                | 540.1 | 1269.9   | 1347.0 | 1344.8          |       | 515.9    | 1258.8 | 1258.8 | 1258.8          | 1258.8 | 45.9  |    |
| 52.5                                                                                | 467.4 | 1128.8   | 1199.3 | 1197.1          |       | 447.5    | 1124.4 | 1194.9 | 1192.7          | 1190.5 | 52.5  |    |
| 59.1                                                                                | 405.7 | 1016.3   | 1078.1 | 1078.1          |       | 392.4    | 1009.7 | 1073.7 | 1071.4          | 1069.2 | 59.1  |    |
| 65.6                                                                                | 348.3 | 921.5    | 978.9  | 978.9           |       | 343.9    | 917.1  | 974.4  | 972.2           | 970.0  | 65.6  |    |
| 72.2                                                                                | 302.0 | 844.4    | 895.1  | 895.1           |       | 297.6    | 837.8  | 892.9  | 890.7           | 888.5  | 72.2  |    |
| 78.7                                                                                | 264.6 | 776.0    | 824.5  | 824.5           |       | 262.4    | 771.6  | 820.1  | 817.9           | 815.7  | 78.7  |    |
| 85.3                                                                                | 235.9 | 718.7    | 762.8  | 762.8           |       | 231.5    | 714.3  | 760.6  | 758.4           | 756.2  | 85.3  |    |
| 91.9                                                                                | 212.7 | 668.0    | 707.7  | 707.7           |       | 208.3    | 663.6  | 703.3  | 703.3           | 701.1  | 91.9  |    |
| 98.4                                                                                | 191.8 | 621.7    | 657.0  | 657.0           |       | 187.4    | 615.1  | 654.8  | 652.6           | 650.4  | 98.4  |    |
| 111.5                                                                               | 160.9 | 545.3    | 576.1  | 576.1           |       | 157.3    | 541.6  | 573.9  | 573.2           | 571.0  | 111.5 |    |
| 124.7                                                                               | 135.6 | 476.9    | 505.6  | 505.6           |       | 131.9    | 476.2  | 504.1  | 503.4           | 501.2  | 124.7 |    |
| 137.8                                                                               | 115.7 | 416.7    | 445.3  | 445.3           |       | 111.3    | 418.9  | 445.3  | 443.1           | 440.9  | 137.8 |    |
| 150.9                                                                               | 101.6 | 353.5    | 377.7  | 376.3           |       | 96.6     | 374.8  | 401.2  | 400.5           | 398.3  | 150.9 |    |
| 160.8                                                                               | 91.7  | 317.5    | 339.5  | 339.5           |       | 86.5     | 340.2  | 366.0  | 365.6           | 363.4  | 160.8 |    |
| 164.0                                                                               | -     | -        | -      | -               |       | 83.8     | 327.8  | 352.7  | 352.0           | 349.8  | 164.0 |    |
| 177.2                                                                               | -     | -        | -      | -               |       | 72.8     | 288.8  | 308.6  | 306.4           | 304.2  | 177.2 |    |

0 lb 143,300 lb 275,600 lb 363,800 lb 452,000 lb 540,200 lb 628,400 lb 716,600 lb

SSL\_1: 36.1 ft – 62.3 ft

SSL\_2, SSL\_3, SSL\_4: 36.1 ft – 68.9 ft

|  496,100 lb +  110,200 lb |                                                                                   |  36.1-68.9 ft |        |        |        |  27.6 ft |       |  32.2 ft/s |       | 360°  | ASME B30.5 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------|--------|--------|-------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------|-------|-------|------------|
|                                                                                                            |  | 216.5 ft                                                                                       |        |        |        | 236.2 ft                                                                                  |       |                                                                                               |       |       |            |
|                                                                                                                                                                                             | SSL_1                                                                             |                                                                                                | SSL_2  | SSL_3  | SSL_4  | SSL_1                                                                                     |       | SSL_2                                                                                         | SSL_3 | SSL_4 |            |
|                                                                                                                                                                                             |  | 0 lb - 716.6 klb                                                                               |        |        |        | 0 lb                                                                                      |       | 0 lb - 716.6 klb                                                                              |       |       |            |
| ft                                                                                                                                                                                          | 1,000 lb                                                                          |                                                                                                |        |        |        |                                                                                           |       |                                                                                               |       |       | ft         |
| 32.8                                                                                                                                                                                        | 698.9                                                                             | 1122.2                                                                                         | 1122.2 | 1122.2 | 1122.2 | 663.6                                                                                     | 981.1 | 981.1                                                                                         | 981.1 | 981.1 | 32.8       |
| 39.4                                                                                                                                                                                        | 582.0                                                                             | 1117.7                                                                                         | 1122.2 | 1122.2 | 1122.2 | 555.6                                                                                     | 981.1 | 981.1                                                                                         | 981.1 | 981.1 | 39.4       |
| 45.9                                                                                                                                                                                        | 496.0                                                                             | 1106.7                                                                                         | 1122.2 | 1122.2 | 1122.2 | 476.2                                                                                     | 981.1 | 981.1                                                                                         | 981.1 | 981.1 | 45.9       |
| 52.5                                                                                                                                                                                        | 432.1                                                                             | 1093.5                                                                                         | 1115.5 | 1122.2 | 1122.2 | 414.5                                                                                     | 978.9 | 981.1                                                                                         | 981.1 | 981.1 | 52.5       |
| 59.1                                                                                                                                                                                        | 379.2                                                                             | 1009.7                                                                                         | 1071.4 | 1067.0 | 1064.8 | 366.0                                                                                     | 963.4 | 974.4                                                                                         | 981.1 | 981.1 | 59.1       |
| 65.6                                                                                                                                                                                        | 337.3                                                                             | 914.9                                                                                          | 972.2  | 967.8  | 965.6  | 326.3                                                                                     | 912.7 | 965.6                                                                                         | 963.4 | 959.0 | 65.6       |
| 72.2                                                                                                                                                                                        | 297.6                                                                             | 837.8                                                                                          | 890.7  | 886.3  | 884.1  | 293.2                                                                                     | 833.3 | 886.3                                                                                         | 881.8 | 877.4 | 72.2       |
| 78.7                                                                                                                                                                                        | 262.4                                                                             | 769.4                                                                                          | 817.9  | 813.5  | 813.5  | 260.1                                                                                     | 765.0 | 815.7                                                                                         | 811.3 | 806.9 | 78.7       |
| 85.3                                                                                                                                                                                        | 231.5                                                                             | 712.1                                                                                          | 758.4  | 754.0  | 751.8  | 229.3                                                                                     | 707.7 | 754.0                                                                                         | 749.6 | 745.2 | 85.3       |
| 91.9                                                                                                                                                                                        | 208.3                                                                             | 661.4                                                                                          | 703.3  | 698.9  | 696.7  | 206.1                                                                                     | 657.0 | 698.9                                                                                         | 694.5 | 690.0 | 91.9       |
| 98.4                                                                                                                                                                                        | 187.4                                                                             | 615.1                                                                                          | 652.6  | 648.2  | 646.0  | 185.2                                                                                     | 610.7 | 648.2                                                                                         | 643.8 | 639.3 | 98.4       |
| 111.5                                                                                                                                                                                       | 156.5                                                                             | 540.1                                                                                          | 573.2  | 570.3  | 568.1  | 153.6                                                                                     | 537.2 | 568.8                                                                                         | 565.9 | 561.4 | 111.5      |
| 124.7                                                                                                                                                                                       | 130.8                                                                             | 474.7                                                                                          | 504.1  | 501.2  | 499.0  | 127.6                                                                                     | 472.5 | 500.4                                                                                         | 497.5 | 493.8 | 124.7      |
| 137.8                                                                                                                                                                                       | 110.2                                                                             | 418.9                                                                                          | 445.3  | 440.9  | 438.7  | 107.4                                                                                     | 416.7 | 443.1                                                                                         | 438.7 | 436.5 | 137.8      |
| 150.9                                                                                                                                                                                       | 95.1                                                                              | 377.7                                                                                          | 401.2  | 396.8  | 396.1  | 91.6                                                                                      | 375.5 | 399.0                                                                                         | 394.6 | 392.4 | 150.9      |
| 164.0                                                                                                                                                                                       | 81.8                                                                              | 340.2                                                                                          | 362.3  | 357.9  | 357.9  | 77.8                                                                                      | 338.8 | 360.1                                                                                         | 355.7 | 353.5 | 164.0      |
| 177.2                                                                                                                                                                                       | 70.3                                                                              | 306.4                                                                                          | 328.5  | 324.1  | 324.1  | 65.9                                                                                      | 306.4 | 326.3                                                                                         | 321.9 | 319.7 | 177.2      |
| 190.3                                                                                                                                                                                       | 61.7                                                                              | 264.1                                                                                          | 286.2  | 281.8  | 280.0  | 57.1                                                                                      | 278.5 | 299.8                                                                                         | 295.4 | 291.7 | 190.3      |
| 193.6                                                                                                                                                                                       | 59.5                                                                              | 257.9                                                                                          | 275.6  | 271.2  | 269.0  | 54.9                                                                                      | 271.5 | 293.2                                                                                         | 288.8 | 284.8 | 193.6      |
| 203.4                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -      | -      | -      | 49.2                                                                                      | 246.9 | 269.0                                                                                         | 264.6 | 260.1 | 203.4      |
| 210.0                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -      | -      | -      | 45.6                                                                                      | 229.3 | 251.3                                                                                         | 246.9 | 242.5 | 210.0      |

| 255.9 ft |                  |       |       |       |       | 275.6 ft         |       |       |       |       |       |
|----------|------------------|-------|-------|-------|-------|------------------|-------|-------|-------|-------|-------|
| SSL_1    |                  | SSL_2 | SSL_3 | SSL_4 | SSL_1 |                  | SSL_2 | SSL_3 | SSL_4 |       |       |
| 0 lb     | 0 lb - 716.6 klb |       |       |       | 0 lb  | 0 lb - 716.6 klb |       |       |       |       |       |
| ft       | 1,000 lb         |       |       |       |       |                  |       |       |       |       | ft    |
| 36.1     | 579.8            | 828.9 | -     | 910.5 | 910.5 | 553.4            | 745.2 | -     | 837.8 | 837.8 | 36.1  |
| 39.4     | 533.5            | 828.9 | -     | 910.5 | 910.5 | 511.5            | 745.2 | -     | 837.8 | 837.8 | 39.4  |
| 42.7     | 496.0            | 828.9 | 842.2 | 910.5 | 910.5 | 476.2            | 745.2 | -     | 837.8 | 837.8 | 42.7  |
| 45.9     | 458.6            | 828.9 | 848.8 | 910.5 | 910.5 | 440.9            | 745.2 | 754.0 | 837.8 | 837.8 | 45.9  |
| 52.5     | 401.2            | 828.9 | 842.2 | 910.5 | 910.5 | 385.8            | 745.2 | 762.8 | 837.8 | 837.8 | 52.5  |
| 59.1     | 354.9            | 813.5 | 833.3 | 910.5 | 910.5 | 339.5            | 745.2 | 754.0 | 837.8 | 837.8 | 59.1  |
| 65.6     | 315.3            | 809.1 | 826.7 | 910.5 | 910.5 | 304.2            | 731.9 | 745.2 | 837.8 | 837.8 | 65.6  |
| 72.2     | 284.4            | 802.5 | 820.1 | 877.4 | 873.0 | 273.4            | 725.3 | 738.5 | 837.8 | 837.8 | 72.2  |
| 78.7     | 257.9            | 765.0 | 802.5 | 804.7 | 802.5 | 246.9            | 718.7 | 731.9 | 800.3 | 795.9 | 78.7  |
| 85.3     | 229.3            | 707.7 | 754.0 | 745.2 | 740.8 | 224.9            | 703.3 | 707.7 | 738.5 | 736.3 | 85.3  |
| 91.9     | 206.1            | 657.0 | 698.9 | 690.0 | 685.6 | 202.8            | 652.6 | 692.3 | 685.6 | 681.2 | 91.9  |
| 98.4     | 185.2            | 610.7 | 648.2 | 639.3 | 634.9 | 181.9            | 606.3 | 643.8 | 634.9 | 630.5 | 98.4  |
| 111.5    | 153.6            | 535.7 | 570.3 | 561.4 | 557.0 | 151.0            | 531.3 | 565.9 | 555.6 | 552.6 | 111.5 |
| 124.7    | 127.6            | 471.8 | 501.9 | 493.8 | 490.2 | 124.9            | 467.4 | 497.5 | 488.0 | 485.0 | 124.7 |
| 137.8    | 107.1            | 418.9 | 443.1 | 436.5 | 434.3 | 103.6            | 414.5 | 438.7 | 432.1 | 427.7 | 137.8 |
| 150.9    | 91.3             | 376.3 | 399.0 | 392.4 | 388.7 | 87.5             | 373.3 | 396.1 | 388.0 | 385.1 | 150.9 |
| 164.0    | 77.3             | 338.8 | 360.1 | 353.5 | 349.1 | 73.3             | 336.6 | 357.9 | 349.1 | 346.9 | 164.0 |
| 177.2    | 65.3             | 306.4 | 326.3 | 319.7 | 315.3 | 61.3             | 304.2 | 324.1 | 315.3 | 313.1 | 177.2 |
| 190.3    | 56.1             | 281.5 | 299.8 | 291.7 | 288.8 | 51.9             | 277.8 | 296.2 | 288.8 | 286.6 | 190.3 |
| 203.4    | 48.0             | 257.2 | 275.6 | 267.5 | 264.6 | 43.6             | 254.3 | 271.2 | 264.6 | 262.4 | 203.4 |
| 216.5    | 40.8             | 233.7 | 253.5 | 246.9 | 242.5 | 36.4             | 233.7 | 249.1 | 242.5 | 240.3 | 216.5 |
| 229.7    | 35.3             | 205.0 | 224.9 | 216.1 | 211.6 | 30.6             | 213.8 | 231.5 | 224.9 | 221.2 | 229.7 |
| 242.8    | -                | -     | -     | -     | -     | 25.3             | 191.4 | 210.9 | 202.1 | 197.7 | 242.8 |
| 246.1    | -                | -     | -     | -     | -     | 24.0             | 185.2 | 205.0 | 195.1 | 190.7 | 246.1 |



0 lb

143,300 lb

275,600 lb

363,800 lb

452,000 lb

540,200 lb

628,400 lb

716,600 lb

SSL\_1:  36.1 ft – 62.3 ftSSL\_2, SSL\_3, SSL\_4:  36.1 ft – 68.9 ft

| <div><div> 496,100 lb +  110,200 lb</div><div> 36.1-68.9 ft</div><div> 27.6 ft</div><div> 32.2 ft/s</div><div>360°</div><div>ASME B30.5</div></div> |          |                                                                                                               |                                                                                                    |                                                                                                    |                                                                                                    |                                                                                                         |                                                                                                      |                                                                                                                 |                                                                                                      |                                                                                                |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------|
| <div> 295.3 ft</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                                                               |                                                                                                    |                                                                                                    |                                                                                                    | <div> 315.0 ft</div> |                                                                                                      |                                                                                                                 |                                                                                                      |                                                                                                |       |
| <div> SSL_1</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          | <div> SSL_2</div>            | <div> SSL_3</div> | <div> SSL_4</div> | <div> SSL_1</div> |                                                                                                         | <div> SSL_2</div> | <div> SSL_3</div>            | <div> SSL_4</div> | <div></div> |       |
| <div> 0 lb</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          | <div> 0 lb - 716.6 klb</div> |                                                                                                    |                                                                                                    |                                                                                                    | <div> 0 lb</div>       |                                                                                                      | <div> 0 lb - 716.6 klb</div> |                                                                                                      |                                                                                                |       |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,000 lb |                                                                                                               |                                                                                                    |                                                                                                    |                                                                                                    |                                                                                                         |                                                                                                      |                                                                                                                 |                                                                                                      |                                                                                                | ft    |
| 39.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 493.8    | 668.0                                                                                                         | -                                                                                                  | 765.0                                                                                              | 765.0                                                                                              | 471.8                                                                                                   | 590.8                                                                                                | -                                                                                                               | 692.3                                                                                                | 692.3                                                                                          | 39.4  |
| 45.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 425.5    | 668.0                                                                                                         | 674.6                                                                                              | 765.0                                                                                              | 765.0                                                                                              | 407.9                                                                                                   | 590.8                                                                                                | -                                                                                                               | 692.3                                                                                                | 692.3                                                                                          | 45.9  |
| 49.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 399.0    | 668.0                                                                                                         | 683.4                                                                                              | 765.0                                                                                              | 765.0                                                                                              | 383.6                                                                                                   | 590.8                                                                                                | 597.5                                                                                                           | 692.3                                                                                                | 692.3                                                                                          | 49.2  |
| 52.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 372.6    | 668.0                                                                                                         | 683.4                                                                                              | 765.0                                                                                              | 765.0                                                                                              | 359.4                                                                                                   | 590.8                                                                                                | 604.1                                                                                                           | 692.3                                                                                                | 692.3                                                                                          | 52.5  |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 330.7    | 668.0                                                                                                         | 683.4                                                                                              | 765.0                                                                                              | 765.0                                                                                              | 317.5                                                                                                   | 590.8                                                                                                | 604.1                                                                                                           | 692.3                                                                                                | 692.3                                                                                          | 59.1  |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 295.4    | 668.0                                                                                                         | 674.6                                                                                              | 765.0                                                                                              | 765.0                                                                                              | 284.4                                                                                                   | 590.8                                                                                                | 604.1                                                                                                           | 692.3                                                                                                | 692.3                                                                                          | 65.6  |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 266.8    | 659.2                                                                                                         | 665.8                                                                                              | 765.0                                                                                              | 765.0                                                                                              | 255.7                                                                                                   | 588.6                                                                                                | 597.5                                                                                                           | 692.3                                                                                                | 692.3                                                                                          | 72.2  |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 240.3    | 652.6                                                                                                         | 659.2                                                                                              | 765.0                                                                                              | 765.0                                                                                              | 231.5                                                                                                   | 582.0                                                                                                | 590.8                                                                                                           | 692.3                                                                                                | 692.3                                                                                          | 78.7  |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 220.5    | 646.0                                                                                                         | 648.2                                                                                              | 734.1                                                                                              | 731.9                                                                                              | 211.6                                                                                                   | 577.6                                                                                                | 586.4                                                                                                           | 692.3                                                                                                | 692.3                                                                                          | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 201.7    | 632.7                                                                                                         | 630.5                                                                                              | 681.2                                                                                              | 676.8                                                                                              | 192.9                                                                                                   | 571.0                                                                                                | 573.2                                                                                                           | 672.4                                                                                                | 672.4                                                                                          | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 181.9    | 606.3                                                                                                         | 617.3                                                                                              | 630.5                                                                                              | 626.1                                                                                              | 176.4                                                                                                   | 562.2                                                                                                | 557.8                                                                                                           | 626.1                                                                                                | 623.9                                                                                          | 98.4  |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 151.0    | 531.3                                                                                                         | 557.0                                                                                              | 552.6                                                                                              | 548.2                                                                                              | 147.0                                                                                                   | 512.9                                                                                                | 534.3                                                                                                           | 548.2                                                                                                | 544.5                                                                                          | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 125.0    | 467.4                                                                                                         | 498.2                                                                                              | 485.0                                                                                              | 481.3                                                                                              | 121.6                                                                                                   | 464.4                                                                                                | 494.6                                                                                                           | 480.6                                                                                                | 476.9                                                                                          | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 103.8    | 414.5                                                                                                         | 440.9                                                                                              | 427.7                                                                                              | 425.5                                                                                              | 100.3                                                                                                   | 410.1                                                                                                | 438.7                                                                                                           | 423.3                                                                                                | 421.1                                                                                          | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 87.5     | 373.3                                                                                                         | 396.8                                                                                              | 385.1                                                                                              | 382.9                                                                                              | 84.0                                                                                                    | 368.9                                                                                                | 393.2                                                                                                           | 380.7                                                                                                | 378.5                                                                                          | 150.9 |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 73.3     | 336.6                                                                                                         | 357.9                                                                                              | 346.9                                                                                              | 344.7                                                                                              | 69.7                                                                                                    | 332.9                                                                                                | 354.2                                                                                                           | 342.5                                                                                                | 340.2                                                                                          | 164.0 |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 61.1     | 304.2                                                                                                         | 324.1                                                                                              | 313.1                                                                                              | 310.9                                                                                              | 57.5                                                                                                    | 302.0                                                                                                | 321.9                                                                                                           | 308.6                                                                                                | 306.4                                                                                          | 177.2 |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 51.7     | 279.3                                                                                                         | 296.2                                                                                              | 285.1                                                                                              | 282.9                                                                                              | 48.0                                                                                                    | 275.6                                                                                                | 293.9                                                                                                           | 282.2                                                                                                | 280.0                                                                                          | 190.3 |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 43.2     | 255.7                                                                                                         | 271.9                                                                                              | 260.9                                                                                              | 257.9                                                                                              | 39.5                                                                                                    | 252.1                                                                                                | 269.0                                                                                                           | 257.9                                                                                                | 255.7                                                                                          | 203.4 |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 35.7     | 233.7                                                                                                         | 251.3                                                                                              | 240.3                                                                                              | 235.9                                                                                              | 32.0                                                                                                    | 231.5                                                                                                | 246.9                                                                                                           | 235.9                                                                                                | 233.7                                                                                          | 216.5 |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 29.8     | 217.5                                                                                                         | 232.2                                                                                              | 221.9                                                                                              | 219.0                                                                                              | 25.8                                                                                                    | 214.6                                                                                                | 229.3                                                                                                           | 218.3                                                                                                | 216.1                                                                                          | 229.7 |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 24.5     | 200.3                                                                                                         | 215.3                                                                                              | 205.0                                                                                              | 201.7                                                                                              | 20.3                                                                                                    | 199.2                                                                                                | 213.1                                                                                                           | 202.1                                                                                                | 199.5                                                                                          | 242.8 |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 19.8     | 181.9                                                                                                         | 200.6                                                                                              | 188.5                                                                                              | 184.1                                                                                              | 15.4                                                                                                    | 185.2                                                                                                | 198.4                                                                                                           | 187.4                                                                                                | 184.1                                                                                          | 255.9 |
| 262.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 17.9     | 170.9                                                                                                         | 190.7                                                                                              | 176.4                                                                                              | 172.0                                                                                              | 13.3                                                                                                    | 176.9                                                                                                | 190.7                                                                                                           | 179.3                                                                                                | 176.0                                                                                          | 262.5 |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -        | -                                                                                                             | -                                                                                                  | -                                                                                                  | -                                                                                                  | 11.2                                                                                                    | 168.7                                                                                                | 183.0                                                                                                           | 171.2                                                                                                | 167.9                                                                                          | 269.0 |
| 278.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -        | -                                                                                                             | -                                                                                                  | -                                                                                                  | -                                                                                                  | -                                                                                                       | 154.3                                                                                                | 170.9                                                                                                           | 157.6                                                                                                | 154.3                                                                                          | 278.9 |

| 334.6 ft |                  |       |       |       |       | 354.3 ft         |       |       |       |       |       |
|----------|------------------|-------|-------|-------|-------|------------------|-------|-------|-------|-------|-------|
| SSL_1    |                  | SSL_2 | SSL_3 | SSL_4 | SSL_1 |                  | SSL_2 | SSL_3 | SSL_4 |       |       |
| 0 lb     | 0 lb - 716.6 klb |       |       |       | 0 lb  | 0 lb - 716.6 klb |       |       |       |       |       |
| ft       | 1,000 lb         |       |       |       |       |                  |       |       |       |       | ft    |
| 42.7     | 421.1            | 522.5 | -     | -     | 692.3 | 403.4            | 460.8 | -     | -     | 619.5 | 42.7  |
| 45.9     | 392.4            | 522.5 | -     | -     | 692.3 | 377.0            | 460.8 | -     | -     | 619.5 | 45.9  |
| 52.5     | 346.1            | 522.5 | 529.1 | 676.8 | 692.3 | 330.7            | 460.8 | 467.4 | 608.5 | 619.5 | 52.5  |
| 59.1     | 306.4            | 522.5 | 535.7 | 676.8 | 692.3 | 293.2            | 458.6 | 471.8 | 617.3 | 619.5 | 59.1  |
| 65.6     | 273.4            | 522.5 | 535.7 | 668.0 | 692.3 | 262.4            | 458.6 | 471.8 | 608.5 | 619.5 | 65.6  |
| 72.2     | 246.9            | 518.1 | 535.7 | 659.2 | 692.3 | 235.9            | 456.4 | 469.6 | 601.9 | 619.5 | 72.2  |
| 78.7     | 222.7            | 513.7 | 529.1 | 652.6 | 690.0 | 213.8            | 449.7 | 465.2 | 595.2 | 619.5 | 78.7  |
| 85.3     | 202.8            | 509.3 | 524.7 | 648.2 | 683.4 | 194.0            | 443.1 | 460.8 | 588.6 | 619.5 | 85.3  |
| 91.9     | 185.2            | 504.9 | 515.9 | 641.5 | 648.2 | 177.5            | 438.7 | 456.4 | 586.4 | 617.3 | 91.9  |
| 98.4     | 169.8            | 500.4 | 502.7 | 610.7 | 615.1 | 162.0            | 434.3 | 447.5 | 577.6 | 590.8 | 98.4  |
| 111.5    | 144.0            | 474.7 | 489.4 | 541.6 | 540.1 | 137.1            | 419.6 | 435.0 | 527.6 | 530.6 | 111.5 |
| 124.7    | 120.1            | 447.5 | 468.1 | 478.4 | 474.7 | 114.6            | 400.5 | 418.9 | 474.7 | 471.8 | 124.7 |
| 137.8    | 97.9             | 407.9 | 434.3 | 421.1 | 418.9 | 94.8             | 385.8 | 401.2 | 418.9 | 414.5 | 137.8 |
| 150.9    | 81.4             | 368.2 | 391.7 | 379.9 | 376.3 | 78.3             | 357.9 | 379.2 | 376.3 | 371.8 | 150.9 |
| 164.0    | 67.0             | 332.2 | 353.5 | 342.5 | 338.8 | 63.9             | 328.5 | 351.3 | 338.0 | 334.4 | 164.0 |
| 177.2    | 54.7             | 299.8 | 319.7 | 308.6 | 306.4 | 51.6             | 297.6 | 317.5 | 304.2 | 302.0 | 177.2 |
| 190.3    | 45.1             | 274.8 | 291.7 | 282.2 | 280.0 | 41.9             | 272.6 | 291.0 | 277.8 | 275.6 | 190.3 |
| 203.4    | 36.5             | 251.3 | 266.8 | 257.9 | 255.7 | 33.1             | 249.1 | 266.0 | 253.5 | 251.8 | 203.4 |
| 216.5    | 28.9             | 229.3 | 244.7 | 235.9 | 233.7 | 25.4             | 227.1 | 242.5 | 231.5 | 229.3 | 216.5 |
| 229.7    | 22.7             | 212.4 | 227.8 | 217.2 | 214.4 | 19.2             | 210.2 | 224.9 | 213.8 | 211.6 | 229.7 |
| 242.8    | 17.0             | 196.9 | 211.6 | 200.6 | 198.4 | 13.3             | 194.4 | 208.0 | 197.3 | 195.1 | 242.8 |
| 246.1    | 15.8             | 193.5 | 207.8 | 196.8 | 194.6 | 11.9             | 190.7 | 203.9 | 193.5 | 191.3 | 246.1 |
| 255.9    | 11.9             | 183.0 | 196.2 | 185.2 | 183.0 | -                | 179.7 | 192.9 | 181.9 | 179.7 | 255.9 |
| 269.0    | -                | 170.5 | 183.0 | 172.7 | 170.5 | -                | 167.2 | 180.4 | 169.4 | 166.4 | 269.0 |
| 282.2    | -                | 155.8 | 168.7 | 159.1 | 156.5 | -                | 155.1 | 166.4 | 157.6 | 154.0 | 282.2 |
| 295.3    | -                | 138.9 | 153.2 | 144.4 | 141.1 | -                | 143.3 | 151.0 | 146.6 | 142.2 | 295.3 |
| 308.4    | -                | -     | -     | -     | -     | -                | 127.9 | 135.6 | 131.2 | 129.3 | 308.4 |
| 315.0    | -                | -     | -     | -     | -     | -                | 120.2 | 127.9 | 123.5 | 121.3 | 315.0 |

see page 32



0 lb

143,300 lb

275,600 lb

363,800 lb

452,000 lb

540,200 lb

628,400 lb

716,600 lb

| <div> <div>363,800 lb + 110,200 lb</div> <div>36.1-62.3 ft</div> <div>27.6 ft</div> <div>32.2 ft/s</div> <div>360°</div> <div>ASME B30.5</div> </div>                                                                                                                                                                                                                |          |        |        |        |       |        |       |        |       |        |       |        |       |       |   |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|--------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|---|-------|
| <div> <div>118.1 ft</div> <div>137.8 ft</div> <div>157.5 ft</div> <div>177.2 ft</div> <div>196.9 ft</div> <div>216.5 ft</div> <div>236.2 ft</div> </div>                                                                                                                                                                                                             |          |        |        |        |       |        |       |        |       |        |       |        |       |       |   |       |
| SSL_1                                                                                                                                                                                                                                                                                                                                                                |          |        |        |        |       |        |       |        |       |        |       |        |       |       |   |       |
| <div> <div>0 lb</div> <div>0 lb-716.6klb</div> <div>0 lb</div> <div>0 lb-716.6klb</div> <div>0 lb</div> <div>0 lb-716.6klb</div> <div>0 lb</div> <div>0 lb-716.6klb</div> <div>0 lb</div> <div>0 lb-716.6klb</div> <div>0 lb</div> <div>0 lb-716.6klb</div> <div>0 lb</div> <div>0 lb-716.6klb</div> <div>0 lb</div> <div>0 lb-716.6klb</div> <div>0 lb</div> </div> |          |        |        |        |       |        |       |        |       |        |       |        |       |       |   |       |
| ft                                                                                                                                                                                                                                                                                                                                                                   | 1,000 lb |        |        |        |       |        |       |        |       |        |       |        |       |       |   | ft    |
| 23.0                                                                                                                                                                                                                                                                                                                                                                 | 1175.1   | 1433.0 | 1080.3 | 1433.0 | -     | -      | -     | -      | -     | -      | -     | -      | -     | -     | - | 23.0  |
| 26.2                                                                                                                                                                                                                                                                                                                                                                 | 994.3    | 1433.0 | 923.7  | 1433.0 | 859.8 | 1433.0 | 806.9 | 1433.0 | -     | -      | -     | -      | -     | -     | - | 26.2  |
| 29.5                                                                                                                                                                                                                                                                                                                                                                 | 859.8    | 1433.0 | 804.7  | 1433.0 | 756.2 | 1433.0 | 712.1 | 1433.0 | -     | -      | -     | -      | -     | -     | - | 29.5  |
| 32.8                                                                                                                                                                                                                                                                                                                                                                 | 756.2    | 1433.0 | 712.1  | 1433.0 | 672.4 | 1433.0 | 637.1 | 1433.0 | 601.9 | 1258.8 | 573.2 | 1122.2 | 542.3 | 981.1 | - | 32.8  |
| 39.4                                                                                                                                                                                                                                                                                                                                                                 | 608.5    | 1433.0 | 577.6  | 1433.0 | 549.0 | 1426.4 | 522.5 | 1422.0 | 498.2 | 1258.8 | 476.2 | 1117.7 | 454.2 | 981.1 | - | 39.4  |
| 45.9                                                                                                                                                                                                                                                                                                                                                                 | 500.4    | 1265.5 | 482.8  | 1258.8 | 460.8 | 1252.2 | 440.9 | 1247.8 | 421.1 | 1241.2 | 403.4 | 1100.1 | 385.8 | 981.1 | - | 45.9  |
| 52.5                                                                                                                                                                                                                                                                                                                                                                 | 407.9    | 1126.6 | 403.4  | 1122.2 | 394.6 | 1115.5 | 379.2 | 1108.9 | 363.8 | 1104.5 | 350.5 | 1093.5 | 335.1 | 972.2 | - | 52.5  |
| 59.1                                                                                                                                                                                                                                                                                                                                                                 | 341.7    | 1014.1 | 337.3  | 1009.7 | 335.1 | 1003.1 | 330.7 | 998.7  | 317.5 | 992.1  | 306.4 | 992.1  | 293.2 | 963.4 | - | 59.1  |
| 65.6                                                                                                                                                                                                                                                                                                                                                                 | 291.0    | 923.7  | 288.8  | 917.1  | 284.4 | 910.5  | 282.2 | 906.1  | 277.8 | 899.5  | 271.2 | 899.5  | 260.1 | 895.1 | - | 65.6  |
| 72.2                                                                                                                                                                                                                                                                                                                                                                 | 253.5    | 844.4  | 251.3  | 840.0  | 246.9 | 833.3  | 242.5 | 828.9  | 240.3 | 822.3  | 240.3 | 822.3  | 233.7 | 817.9 | - | 72.2  |
| 78.7                                                                                                                                                                                                                                                                                                                                                                 | 224.9    | 758.4  | 220.5  | 773.8  | 217.2 | 767.2  | 213.8 | 762.8  | 209.4 | 756.2  | 209.4 | 756.2  | 207.2 | 751.8 | - | 78.7  |
| 85.3                                                                                                                                                                                                                                                                                                                                                                 | 200.6    | 674.6  | 196.2  | 712.1  | 192.9 | 707.7  | 188.5 | 701.1  | 185.2 | 696.7  | 185.2 | 694.5  | 183.0 | 692.3 | - | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                                                                 | 180.8    | 612.9  | 176.4  | 659.2  | 172.0 | 654.8  | 168.7 | 648.2  | 164.2 | 643.8  | 164.2 | 641.5  | 162.0 | 639.3 | - | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                                                 | 163.1    | 544.5  | 159.8  | 606.3  | 155.4 | 608.5  | 151.0 | 601.9  | 147.7 | 597.5  | 146.6 | 595.2  | 144.4 | 593.0 | - | 98.4  |
| 108.3                                                                                                                                                                                                                                                                                                                                                                | 143.3    | 465.2  | 141.1  | 523.6  | 136.1 | 553.4  | 132.3 | 547.8  | 128.5 | 543.4  | 127.6 | 541.2  | 125.2 | 537.9 | - | 108.3 |
| 111.5                                                                                                                                                                                                                                                                                                                                                                | -        | -      | 134.8  | 496.0  | 129.7 | 535.0  | 126.0 | 529.8  | 122.1 | 525.4  | 121.3 | 523.2  | 118.8 | 519.6 | - | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                                                | -        | -      | 112.4  | 410.1  | 108.8 | 457.1  | 105.1 | 466.6  | 100.6 | 462.2  | 99.7  | 460.0  | 96.8  | 456.4 | - | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                                                | -        | -      | -      | -      | 92.8  | 385.8  | 88.2  | 412.3  | 83.1  | 407.9  | 81.8  | 405.7  | 78.3  | 403.4 | - | 137.8 |
| 144.4                                                                                                                                                                                                                                                                                                                                                                | -        | -      | -      | -      | 86.4  | 350.5  | 82.1  | 382.1  | 76.8  | 386.5  | 75.3  | 385.1  | 71.7  | 382.1 | - | 144.4 |
| 150.9                                                                                                                                                                                                                                                                                                                                                                | -        | -      | -      | -      | -     | -      | 76.0  | 352.0  | 70.5  | 365.2  | 68.9  | 364.5  | 65.0  | 360.8 | - | 150.9 |
| 160.8                                                                                                                                                                                                                                                                                                                                                                | -        | -      | -      | -      | -     | -      | 67.5  | 315.3  | 61.9  | 332.9  | 60.0  | 335.8  | 56.0  | 331.4 | - | 160.8 |
| 164.0                                                                                                                                                                                                                                                                                                                                                                | -        | -      | -      | -      | -     | -      | -     | -      | 59.7  | 321.9  | 57.6  | 327.8  | 53.6  | 323.3 | - | 164.0 |
| 177.2                                                                                                                                                                                                                                                                                                                                                                | -        | -      | -      | -      | -     | -      | -     | -      | 50.7  | 277.8  | 48.1  | 295.4  | 43.9  | 291.0 | - | 177.2 |
| 190.3                                                                                                                                                                                                                                                                                                                                                                | -        | -      | -      | -      | -     | -      | -     | -      | -     | -      | 41.0  | 261.9  | 36.5  | 267.5 | - | 190.3 |
| 193.6                                                                                                                                                                                                                                                                                                                                                                | -        | -      | -      | -      | -     | -      | -     | -      | -     | -      | 39.2  | 253.5  | 34.7  | 261.6 | - | 193.6 |
| 203.4                                                                                                                                                                                                                                                                                                                                                                | -        | -      | -      | -      | -     | -      | -     | -      | -     | -      | -     | -      | 30.0  | 242.5 | - | 203.4 |
| 210.0                                                                                                                                                                                                                                                                                                                                                                | -        | -      | -      | -      | -     | -      | -     | -      | -     | -      | -     | -      | 27.1  | 229.3 | - | 210.0 |

|  |      |            |            |            |            |            |            |
|--|------|------------|------------|------------|------------|------------|------------|
|  | 0 lb | 275,600 lb | 363,800 lb | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb |
|--|------|------------|------------|------------|------------|------------|------------|

| <div> <div>363,800 lb + 110,200 lb</div> <div>36.1-62.3 ft</div> <div>27.6 ft</div> <div>32.2 ft/s</div> <div>360°</div> <div>ASME B30.5</div> </div>                                                                                                                    |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <div> <div>255.9 ft</div> <div>275.6 ft</div> <div>295.3 ft</div> <div>315.0 ft</div> <div>334.6 ft</div> <div>354.3 ft</div> </div>                                                                                                                                     |       |       |       |       |       |       |       |       |       |       |       |       |       |
| SSL_1                                                                                                                                                                                                                                                                    |       |       |       |       |       |       |       |       |       |       |       |       |       |
| <div> <div>0 lb</div> <div>0 lb-716.6 klb</div> <div>0 lb</div> <div>0 lb-716.6 klb</div> <div>0 lb</div> <div>0 lb-716.6 klb</div> <div>0 lb</div> <div>0 lb-716.6 klb</div> <div>0 lb</div> <div>0 lb-716.6 klb</div> <div>0 lb</div> <div>0 lb-716.6 klb</div> </div> |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1,000 lb                                                                                                                                                                                                                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |       |
| ft                                                                                                                                                                                                                                                                       |       |       |       |       |       |       |       |       |       |       |       |       | ft    |
| 36.1                                                                                                                                                                                                                                                                     | 474.0 | 828.9 | 451.9 | 745.2 | -     | -     | -     | -     | -     | -     | -     | -     | 36.1  |
| 39.4                                                                                                                                                                                                                                                                     | 434.3 | 828.9 | 414.5 | 745.2 | 399.0 | 668.0 | 381.4 | 590.8 | -     | -     | -     | -     | 39.4  |
| 42.7                                                                                                                                                                                                                                                                     | 403.4 | 828.9 | 384.7 | 745.2 | 371.5 | 668.0 | 354.9 | 590.8 | 339.5 | 522.5 | 324.1 | 460.8 | 42.7  |
| 45.9                                                                                                                                                                                                                                                                     | 372.6 | 828.9 | 354.9 | 745.2 | 343.9 | 668.0 | 328.5 | 590.8 | 315.3 | 522.5 | 302.0 | 460.8 | 45.9  |
| 52.5                                                                                                                                                                                                                                                                     | 324.1 | 820.1 | 308.6 | 745.2 | 299.8 | 668.0 | 286.6 | 590.8 | 275.6 | 522.5 | 262.4 | 460.8 | 52.5  |
| 59.1                                                                                                                                                                                                                                                                     | 284.4 | 813.5 | 273.4 | 736.3 | 264.6 | 668.0 | 253.5 | 590.8 | 242.5 | 522.5 | 231.5 | 458.6 | 59.1  |
| 65.6                                                                                                                                                                                                                                                                     | 251.3 | 809.1 | 242.5 | 729.7 | 235.9 | 659.2 | 224.9 | 590.8 | 216.1 | 522.5 | 206.1 | 458.6 | 65.6  |
| 72.2                                                                                                                                                                                                                                                                     | 224.9 | 802.5 | 216.1 | 725.3 | 210.5 | 652.6 | 201.7 | 588.6 | 192.9 | 518.1 | 184.1 | 456.4 | 72.2  |
| 78.7                                                                                                                                                                                                                                                                     | 203.9 | 751.8 | 195.1 | 718.7 | 189.6 | 648.2 | 180.8 | 582.0 | 173.1 | 513.7 | 165.3 | 449.7 | 78.7  |
| 85.3                                                                                                                                                                                                                                                                     | 183.0 | 692.3 | 176.4 | 687.8 | 172.0 | 643.8 | 164.2 | 577.6 | 156.5 | 507.1 | 148.8 | 443.1 | 85.3  |
| 91.9                                                                                                                                                                                                                                                                     | 162.0 | 637.1 | 158.7 | 632.7 | 156.5 | 632.7 | 148.8 | 571.0 | 141.1 | 502.7 | 133.4 | 438.7 | 91.9  |
| 98.4                                                                                                                                                                                                                                                                     | 144.4 | 590.8 | 142.2 | 586.4 | 142.2 | 586.4 | 134.5 | 555.6 | 127.9 | 500.4 | 121.3 | 434.3 | 98.4  |
| 111.5                                                                                                                                                                                                                                                                    | 118.8 | 518.8 | 115.7 | 514.4 | 115.9 | 514.4 | 111.3 | 501.2 | 107.3 | 474.7 | 101.0 | 417.4 | 111.5 |
| 124.7                                                                                                                                                                                                                                                                    | 96.7  | 456.4 | 93.1  | 451.9 | 93.3  | 451.9 | 90.2  | 448.3 | 87.5  | 443.1 | 82.5  | 400.5 | 124.7 |
| 137.8                                                                                                                                                                                                                                                                    | 78.0  | 403.4 | 74.3  | 399.0 | 74.5  | 399.0 | 71.2  | 396.8 | 68.6  | 394.6 | 65.7  | 385.8 | 137.8 |
| 150.9                                                                                                                                                                                                                                                                    | 64.7  | 360.8 | 60.9  | 356.4 | 61.0  | 356.4 | 57.5  | 354.2 | 54.9  | 352.0 | 51.9  | 347.6 | 150.9 |
| 164.0                                                                                                                                                                                                                                                                    | 53.1  | 323.3 | 49.2  | 319.7 | 49.2  | 319.7 | 45.6  | 316.7 | 42.9  | 314.5 | 39.8  | 312.3 | 164.0 |
| 177.2                                                                                                                                                                                                                                                                    | 43.2  | 291.0 | 39.0  | 288.8 | 39.0  | 288.8 | 35.3  | 284.4 | 32.6  | 282.2 | 29.3  | 280.0 | 177.2 |
| 190.3                                                                                                                                                                                                                                                                    | 35.6  | 266.0 | 31.4  | 263.8 | 31.1  | 262.4 | 27.3  | 259.4 | 24.5  | 257.2 | 21.2  | 255.0 | 190.3 |
| 203.4                                                                                                                                                                                                                                                                    | 28.8  | 244.0 | 24.5  | 241.0 | 24.0  | 239.6 | 20.3  | 237.0 | 17.2  | 234.6 | 13.8  | 230.8 | 203.4 |
| 206.7                                                                                                                                                                                                                                                                    | 27.3  | 239.2 | 23.0  | 235.9 | 22.5  | 234.8 | 18.7  | 232.0 | 15.6  | 229.5 | 12.1  | 224.9 | 206.7 |
| 213.3                                                                                                                                                                                                                                                                    | 24.4  | 229.6 | 20.0  | 225.6 | 19.4  | 225.2 | 15.7  | 222.1 | 12.3  | 219.4 | -     | 216.1 | 213.3 |
| 216.5                                                                                                                                                                                                                                                                    | 22.9  | 224.9 | 18.5  | 220.5 | 17.9  | 220.5 | 14.1  | 217.2 | -     | 215.0 | -     | 211.6 | 216.5 |
| 223.1                                                                                                                                                                                                                                                                    | 20.7  | 215.0 | 16.2  | 212.7 | 15.4  | 212.1 | 11.2  | 208.3 | -     | 206.5 | -     | 203.6 | 223.1 |
| 229.7                                                                                                                                                                                                                                                                    | 18.5  | 205.0 | 13.8  | 205.0 | 12.9  | 203.7 | -     | 200.6 | -     | 198.0 | -     | 195.5 | 229.7 |
| 232.9                                                                                                                                                                                                                                                                    | -     | -     | 12.6  | 201.2 | 11.7  | 199.5 | -     | 196.8 | -     | 193.8 | -     | 191.4 | 232.9 |
| 236.2                                                                                                                                                                                                                                                                    | -     | -     | 11.5  | 197.3 | -     | 196.2 | -     | 192.9 | -     | 189.6 | -     | 187.4 | 236.2 |
| 242.8                                                                                                                                                                                                                                                                    | -     | -     | -     | 189.2 | -     | 189.6 | -     | 185.9 | -     | 183.0 | -     | 180.4 | 242.8 |
| 246.1                                                                                                                                                                                                                                                                    | -     | -     | -     | 185.2 | -     | 186.3 | -     | 182.4 | -     | 179.7 | -     | 176.9 | 246.1 |
| 255.9                                                                                                                                                                                                                                                                    | -     | -     | -     | -     | -     | 176.4 | -     | 172.0 | -     | 169.8 | -     | 166.4 | 255.9 |
| 262.5                                                                                                                                                                                                                                                                    | -     | -     | -     | -     | -     | 169.8 | -     | 166.4 | -     | 163.9 | -     | 160.6 | 262.5 |
| 269.0                                                                                                                                                                                                                                                                    | -     | -     | -     | -     | -     | -     | -     | 160.9 | -     | 158.0 | -     | 154.7 | 269.0 |
| 278.9                                                                                                                                                                                                                                                                    | -     | -     | -     | -     | -     | -     | -     | 152.1 | -     | 149.7 | -     | 146.2 | 278.9 |
| 282.2                                                                                                                                                                                                                                                                    | -     | -     | -     | -     | -     | -     | -     | -     | -     | 147.3 | -     | 143.7 | 282.2 |
| 295.3                                                                                                                                                                                                                                                                    | -     | -     | -     | -     | -     | -     | -     | -     | -     | 137.8 | -     | 133.4 | 295.3 |
| 308.4                                                                                                                                                                                                                                                                    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 124.6 | 308.4 |
| 315.0                                                                                                                                                                                                                                                                    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 120.2 | 315.0 |

0 lb

275,600 lb

363,800 lb

452,000 lb

540,200 lb

628,400 lb

716,600 lb

| 363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s  360° <b>ASME B30.5</b> |                                                                                   |          |                |          |                |          |                |          |                |       |                |       |                |          |                |                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|-------|----------------|-------|----------------|----------|----------------|-------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                   | 177.2 ft |                | 196.9 ft |                | 216.5 ft |                | 236.2 ft |                |       | 255.9 ft       |       |                | 265.8 ft |                |                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                   | LSL_2    |                |          |                |          |                | LSL_1    |                | LSL_2 | LSL_1          |       | LSL_2          | LSL_15   |                |                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 0 lb     | 0 lb-716.6 klb | 0 lb     | 0 lb-716.6 klb | 0 lb     | 0 lb-716.6 klb | 0 lb     | 0 lb-716.6 klb | 0 lb  | 0 lb-716.6 klb | 0 lb  | 0 lb-716.6 klb | 0 lb     | 0 lb-716.6 klb |  |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                   | 1,000 lb |                |          |                |          |                |          |                |       |                |       |                |          |                | ft                                                                                  |
| 26.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 765.0                                                                             | 765.0    | -              | -        | -              | 630.5    | 765.0          | -        | -              | -     | -              | -     | -              | -        | -              | 26.2                                                                                |
| 29.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 705.5                                                                             | 765.0    | 665.8          | 765.0    | 665.8          | 765.0    | 555.6          | 765.0    | 765.0          | 529.1 | 716.5          | 729.7 | 765.0          | -        | -              | 29.5                                                                                |
| 32.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 632.7                                                                             | 765.0    | 599.7          | 765.0    | 568.8          | 765.0    | 555.6          | 765.0    | 765.0          | 529.1 | 716.5          | 729.7 | 765.0          | 502.7    | 765.0          | 32.8                                                                                |
| 36.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 576.5                                                                             | 765.0    | 547.8          | 765.0    | 521.4          | 765.0    | 511.5          | 765.0    | 765.0          | 487.2 | 716.5          | 729.7 | 765.0          | 546.7    | 765.0          | 36.1                                                                                |
| 39.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 520.3                                                                             | 765.0    | 496.0          | 765.0    | 474.0          | 765.0    | 467.4          | 765.0    | 765.0          | 445.3 | 716.5          | 729.7 | 765.0          | 502.7    | 765.0          | 39.4                                                                                |
| 45.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 440.9                                                                             | 765.0    | 421.1          | 765.0    | 403.4          | 765.0    | 401.2          | 765.0    | 765.0          | 383.6 | 716.5          | 729.7 | 765.0          | 432.1    | 765.0          | 45.9                                                                                |
| 52.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 381.4                                                                             | 765.0    | 366.0          | 765.0    | 350.5          | 765.0    | 348.3          | 765.0    | 765.0          | 335.1 | 712.1          | 723.1 | 765.0          | 377.0    | 765.0          | 52.5                                                                                |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 332.9                                                                             | 765.0    | 321.9          | 765.0    | 308.6          | 765.0    | 308.6          | 765.0    | 765.0          | 295.4 | 709.9          | 723.1 | 765.0          | 332.9    | 765.0          | 59.1                                                                                |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 288.8                                                                             | 765.0    | 284.4          | 765.0    | 273.4          | 765.0    | 275.6          | 765.0    | 765.0          | 264.6 | 709.9          | 723.1 | 765.0          | 295.4    | 765.0          | 65.6                                                                                |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 251.3                                                                             | 765.0    | 249.1          | 765.0    | 244.7          | 765.0    | 246.9          | 743.0    | 756.2          | 238.1 | 707.7          | 716.5 | 765.0          | 266.8    | 765.0          | 72.2                                                                                |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 220.5                                                                             | 765.0    | 219.4          | 765.0    | 215.0          | 762.8    | 222.7          | 718.7    | 731.9          | 216.1 | 679.0          | 690.0 | 765.0          | 240.3    | 765.0          | 78.7                                                                                |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 197.3                                                                             | 712.1    | 194.0          | 707.7    | 190.7          | 703.3    | 197.3          | 696.7    | 703.3          | 194.0 | 652.6          | 661.4 | 727.5          | 218.8    | 726.4          | 85.3                                                                                |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 177.5                                                                             | 659.2    | 174.2          | 654.8    | 170.9          | 650.4    | 177.5          | 657.0    | 650.4          | 173.1 | 626.1          | 634.9 | 690.0          | 197.3    | 687.8          | 91.9                                                                                |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 159.8                                                                             | 612.9    | 157.6          | 608.5    | 153.2          | 604.1    | 159.8          | 610.7    | 604.1          | 155.4 | 601.9          | 599.7 | 643.8          | 178.0    | 640.4          | 98.4                                                                                |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 134.8                                                                             | 540.9    | 131.9          | 536.5    | 127.5          | 532.0    | 133.4          | 538.7    | 532.0          | 129.7 | 531.3          | 527.6 | 560.0          | 145.0    | 556.7          | 111.5                                                                               |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 114.0                                                                             | 476.9    | 110.6          | 472.5    | 106.3          | 468.1    | 111.6          | 474.0    | 468.9          | 108.2 | 468.9          | 464.4 | 491.6          | 120.4    | 489.4          | 124.7                                                                               |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 97.2                                                                              | 421.1    | 93.7           | 416.7    | 89.5           | 412.3    | 94.6           | 416.7    | 414.5          | 90.8  | 414.5          | 410.1 | 437.3          | 100.8    | 435.0          | 137.8                                                                               |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 85.2                                                                              | 365.2    | 81.5           | 375.5    | 76.9           | 371.1    | 81.9           | 375.5    | 371.8          | 77.6  | 371.8          | 368.9 | 390.2          | 83.1     | 388.0          | 150.9                                                                               |
| 160.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 76.7                                                                              | 324.1    | 73.1           | 344.7    | 68.2           | 342.5    | 73.2           | 346.9    | 342.8          | 68.5  | 342.5          | 340.2 | 362.7          | 73.4     | 360.5          | 160.8                                                                               |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -        | 70.8           | 334.4    | 65.8           | 334.4    | 70.7           | 338.8    | 335.1          | 66.0  | 334.4          | 332.2 | 353.5          | 70.2     | 351.3          | 164.0                                                                               |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -        | 61.5           | 293.2    | 56.2           | 302.0    | 60.8           | 306.4    | 304.2          | 56.0  | 302.0          | 299.8 | 321.1          | 58.8     | 318.9          | 177.2                                                                               |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -        | -              | -        | 48.8           | 272.1    | 53.4           | 281.5    | 279.3          | 48.4  | 277.0          | 274.8 | 293.2          | 48.9     | 291.0          | 190.3                                                                               |
| 193.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -        | -              | -        | 47.0           | 264.6    | 51.5           | 275.2    | 273.0          | 46.4  | 270.8          | 268.6 | 287.3          | 47.0     | 285.1          | 193.6                                                                               |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -        | -              | -        | -              | -        | 46.6           | 259.0    | 256.8          | 41.6  | 255.0          | 252.8 | 269.7          | 41.3     | 267.5          | 203.4                                                                               |
| 210.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -        | -              | -        | -              | -        | 43.7           | 249.1    | 246.9          | 38.7  | 245.4          | 243.2 | 257.9          | 37.5     | 255.7          | 210.0                                                                               |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -        | -              | -        | -              | -        | -              | -        | -              | 35.7  | 235.9          | 233.7 | 248.2          | 34.5     | 246.2          | 216.5                                                                               |
| 226.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -        | -              | -        | -              | -        | -              | -        | -              | 32.2  | 219.4          | 218.3 | 233.7          | 29.9     | 231.9          | 226.4                                                                               |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -        | -              | -        | -              | -        | -              | -        | -              | -     | -              | -     | -              | 28.4     | 227.1          | 229.7                                                                               |
| 236.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -        | -              | -        | -              | -        | -              | -        | -              | -     | -              | -     | -              | 25.8     | 219.4          | 236.2                                                                               |


0 lb
143,300 lb
275,600 lb
363,800 lb
452,000 lb
540,200 lb
628,400 lb
716,600 lb

LSL\_1, LSL\_2:  36.1 ft – 62.3 ft

LSL\_15:  42.7 ft – 68.9 ft

LSL\_15:  496,100 lb +  110,200 lb



| 363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s  360° ASME B30.5 |                                                                                   |          |                |       |          |                |          |                |       |          |                |       |                |       |       |        |       |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|----------------|-------|----------|----------------|----------|----------------|-------|----------|----------------|-------|----------------|-------|-------|--------|-------|--|
|                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                   | 275.6 ft |                |       | 285.5 ft |                | 295.3 ft |                |       | 305.1 ft |                |       | 315.0 ft       |       |       |        |       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   | LSL_1    |                | LSL_2 | LSL_15   |                | LSL_1    |                | LSL_2 | LSL_15   |                | LSL_1 |                | LSL_2 | LSL_7 | LSL_15 |       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 0 lb     | 0 lb-716.6 klb |       | 0 lb     | 0 lb-716.6 klb | 0 lb     | 0 lb-716.6 klb |       | 0 lb     | 0 lb-716.6 klb | 0 lb  | 0 lb-716.6 klb |       |       |        |       |  |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   | 1,000 lb |                |       |          |                |          |                |       |          |                |       |                |       |       |        | ft    |  |
| 36.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 465.2                                                                             | 597.5    | 661.4          | 765.0 | 522.5    | 765.0          | 445.3    | 551.2          | 608.5 | 765.0    | -              | -     | -              | -     | -     | -      | 36.1  |  |
| 39.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 429.9                                                                             | 597.5    | 661.4          | 765.0 | 480.6    | 765.0          | 412.3    | 551.2          | 608.5 | 765.0    | 460.8          | 760.6 | 394.6          | 476.2 | 533.5 | 586.4  | 39.4  |  |
| 45.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 372.6                                                                             | 597.5    | 661.4          | 765.0 | 414.5    | 765.0          | 357.1    | 546.7          | 606.3 | 765.0    | 396.8          | 760.6 | 343.9          | 471.8 | 529.1 | 586.4  | 45.9  |  |
| 52.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 326.3                                                                             | 595.2    | 659.2          | 765.0 | 361.6    | 765.0          | 313.1    | 546.7          | 604.1 | 765.0    | 346.1          | 760.6 | 302.0          | 467.4 | 529.1 | 586.4  | 52.5  |  |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 288.8                                                                             | 582.0    | 643.8          | 765.0 | 319.7    | 765.0          | 277.8    | 533.5          | 588.6 | 765.0    | 306.4          | 760.6 | 266.8          | 458.6 | 529.1 | 586.4  | 59.1  |  |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 257.9                                                                             | 575.4    | 639.3          | 765.0 | 284.4    | 765.0          | 246.9    | 520.3          | 575.4 | 765.0    | 273.4          | 760.6 | 240.3          | 449.7 | 529.1 | 582.0  | 65.6  |  |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 233.7                                                                             | 571.0    | 637.1          | 765.0 | 255.7    | 765.0          | 222.7    | 511.5          | 566.6 | 765.0    | 244.7          | 760.6 | 217.2          | 440.9 | 529.1 | 573.2  | 72.2  |  |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 211.6                                                                             | 557.8    | 623.9          | 765.0 | 231.5    | 765.0          | 202.8    | 500.4          | 555.6 | 765.0    | 220.5          | 760.6 | 196.2          | 432.1 | 529.1 | 571.0  | 78.7  |  |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 192.9                                                                             | 537.9    | 599.7          | 725.3 | 211.1    | 723.1          | 185.2    | 485.0          | 537.9 | 722.0    | 201.2          | 717.6 | 178.6          | 423.3 | 529.1 | 571.0  | 85.3  |  |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 175.3                                                                             | 518.1    | 575.4          | 685.6 | 190.7    | 681.2          | 169.8    | 465.2          | 518.1 | 679.0    | 181.9          | 674.6 | 164.2          | 407.9 | 515.9 | 568.8  | 91.9  |  |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 157.6                                                                             | 498.2    | 553.4          | 638.2 | 173.1    | 634.9          | 155.4    | 447.5          | 498.2 | 632.7    | 166.4          | 628.3 | 151.0          | 394.6 | 509.3 | 546.7  | 98.4  |  |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 131.2                                                                             | 457.1    | 506.3          | 554.5 | 141.1    | 552.3          | 129.0    | 412.3          | 457.1 | 550.1    | 137.2          | 545.6 | 126.0          | 365.2 | 474.7 | 499.7  | 111.5 |  |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 109.4                                                                             | 418.9    | 458.6          | 487.2 | 116.0    | 485.0          | 107.1    | 377.0          | 416.7 | 483.9    | 111.8          | 480.6 | 104.9          | 335.8 | 448.3 | 449.7  | 124.7 |  |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 92.4                                                                              | 383.6    | 410.1          | 432.8 | 96.3     | 430.6          | 89.7     | 341.7          | 377.0 | 429.9    | 91.3           | 427.7 | 87.5           | 306.4 | 405.7 | 396.8  | 137.8 |  |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 79.1                                                                              | 351.3    | 367.4          | 385.8 | 78.7     | 383.6          | 76.2     | 313.8          | 344.7 | 381.4    | 73.6           | 379.2 | 73.9           | 281.5 | 363.0 | 354.2  | 150.9 |  |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 67.5                                                                              | 321.1    | 330.0          | 349.1 | 65.8     | 346.9          | 64.4     | 287.3          | 313.8 | 346.1    | 60.6           | 343.9 | 61.9           | 257.9 | 325.5 | 316.7  | 164.0 |  |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 57.3                                                                              | 293.2    | 297.6          | 316.7 | 54.3     | 314.5          | 54.2     | 262.4          | 284.4 | 313.8    | 49.0           | 311.6 | 51.6           | 235.9 | 293.2 | 284.4  | 177.2 |  |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 49.5                                                                              | 266.8    | 272.6          | 288.8 | 44.3     | 286.6          | 46.3     | 240.3          | 256.5 | 284.4    | 39.0           | 282.2 | 43.7           | 217.5 | 268.2 | 259.4  | 190.3 |  |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 42.5                                                                              | 241.4    | 248.4          | 265.3 | 36.5     | 263.1          | 39.2     | 219.4          | 230.8 | 260.9    | 31.1           | 258.7 | 36.5           | 199.2 | 246.2 | 237.4  | 203.4 |  |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 36.4                                                                              | 218.3    | 224.9          | 244.0 | 29.5     | 241.8          | 32.8     | 199.5          | 209.4 | 240.3    | 24.0           | 237.7 | 30.2           | 181.9 | 227.1 | 218.3  | 216.5 |  |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 31.7                                                                              | 199.9    | 202.1          | 224.9 | 23.4     | 222.7          | 27.9     | 183.4          | 189.6 | 222.7    | 17.9           | 219.4 | 25.1           | 166.4 | 210.2 | 201.7  | 229.7 |  |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 27.3                                                                              | 181.1    | 184.1          | 209.9 | 18.2     | 208.0          | 23.4     | 168.7          | 170.5 | 206.5    | 12.3           | 203.9 | 20.4           | 151.8 | 195.1 | 187.0  | 242.8 |  |
| 246.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 26.2                                                                              | 176.4    | 180.8          | 206.1 | 16.9     | 204.3          | 22.4     | 164.8          | 165.9 | 202.5    | 10.9           | 200.1 | 19.4           | 148.8 | 191.8 | 183.5  | 246.1 |  |
| 249.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                                                 | -        | -              | -     | 15.7     | 200.6          | 21.4     | 160.9          | 161.3 | 198.4    | 9.5            | 196.2 | 18.4           | 145.9 | 188.5 | 180.0  | 249.3 |  |
| 252.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                                                 | -        | -              | -     | 14.3     | 197.3          | 20.4     | 157.1          | 156.7 | 195.1    | -              | 192.9 | 17.3           | 142.9 | 185.2 | 176.6  | 252.6 |  |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                                                 | -        | -              | -     | -        | -              | 19.4     | 153.2          | 152.1 | 191.8    | -              | 189.6 | 16.3           | 140.0 | 181.9 | 173.1  | 255.9 |  |
| 262.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                                                 | -        | -              | -     | -        | -              | 17.6     | 145.5          | 147.7 | 185.2    | -              | 183.0 | 14.7           | 133.7 | 176.0 | 167.2  | 262.5 |  |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                                                 | -        | -              | -     | -        | -              | -        | -              | -     | -        | -              | 176.4 | 13.1           | 127.5 | 170.1 | 161.3  | 269.0 |  |
| 278.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                                                 | -        | -              | -     | -        | -              | -        | -              | -     | -        | -              | -     | 10.8           | 119.0 | 162.0 | 153.2  | 278.9 |  |


0 lb
143,300 lb
275,600 lb
363,800 lb
452,000 lb
540,200 lb
628,400 lb
716,600 lb

LSL\_1, LSL\_2, LSL\_7:  36.1 ft – 62.3 ft

LSL\_15:  42.7 ft – 68.9 ft

LSL\_15:  496,100 lb +  110,200 lb

| 363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s  360° ASME B30.5 |       |                  |       |       |       |                  |       |       |       |          |       |        |       |        |       |                  |    |                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------|-------|-------|-------|------------------|-------|-------|-------|----------|-------|--------|-------|--------|-------|------------------|----|-------------------------------------------------------------------------------------|
|  324.8 ft                                                                                                                                                                                                                                                                                                                                                                                                         |       | 334.6 ft         |       |       |       |                  |       |       |       | 344.5 ft |       |        |       |        |       |                  |    |                                                                                     |
|  LSL_7                                                                                                                                                                                                                                                                                                                                                                                                            |       | LSL_15           |       | LSL_1 |       | LSL_2            |       | LSL_7 |       | LSL_9    |       | LSL_11 |       | LSL_15 |       |                  |    |                                                                                     |
|  0 lb                                                                                                                                                                                                                                                                                                                                                                                                             |       | 0 lb - 716.6 klb |       | 0 lb  |       | 0 lb - 716.6 klb |       |       |       |          |       |        |       | 0 lb   |       | 0 lb - 716.6 klb |    |  |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | 1,000 lb         |       |       |       |                  |       |       |       |          |       |        |       |        |       |                  | ft |                                                                                     |
| 39.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 366.0 | 557.8            | 692.3 | 379.2 | 432.1 | 480.6            | 526.9 | 588.6 | 604.1 | 692.3    | -     | -      | -     | -      | -     | 39.4             |    |                                                                                     |
| 42.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 340.6 | 557.8            | 692.3 | 353.8 | 432.1 | 478.4            | 526.9 | 588.6 | 601.9 | 692.3    | 324.1 | 500.4  | 562.2 | 577.6  | 683.4 | 42.7             |    |                                                                                     |
| 45.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 315.3 | 557.8            | 692.3 | 328.5 | 432.1 | 476.2            | 526.9 | 588.6 | 599.7 | 692.3    | 302.0 | 500.4  | 562.2 | 575.4  | 683.4 | 45.9             |    |                                                                                     |
| 52.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 275.6 | 557.8            | 692.3 | 288.8 | 432.1 | 476.2            | 526.9 | 588.6 | 597.5 | 692.3    | 262.4 | 500.4  | 562.2 | 573.2  | 683.4 | 52.5             |    |                                                                                     |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 242.5 | 557.8            | 692.3 | 257.9 | 432.1 | 476.2            | 526.9 | 584.2 | 593.0 | 692.3    | 231.5 | 500.4  | 557.8 | 568.8  | 681.2 | 59.1             |    |                                                                                     |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 216.1 | 555.6            | 692.3 | 229.3 | 429.9 | 476.2            | 526.9 | 582.0 | 586.4 | 692.3    | 206.1 | 500.4  | 553.4 | 564.4  | 676.8 | 65.6             |    |                                                                                     |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 192.9 | 544.5            | 692.3 | 208.3 | 427.7 | 476.2            | 515.9 | 579.8 | 582.0 | 692.3    | 184.1 | 491.6  | 553.4 | 560.0  | 672.4 | 72.2             |    |                                                                                     |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 173.1 | 540.1            | 692.3 | 188.5 | 427.7 | 474.0            | 507.1 | 568.8 | 573.2 | 692.3    | 165.3 | 478.4  | 542.3 | 555.6  | 663.6 | 78.7             |    |                                                                                     |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 156.5 | 537.9            | 680.1 | 172.0 | 425.5 | 474.0            | 504.9 | 562.2 | 566.6 | 675.7    | 148.8 | 476.2  | 533.5 | 549.0  | 651.5 | 85.3             |    |                                                                                     |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 141.1 | 537.9            | 668.0 | 156.5 | 423.3 | 474.0            | 502.7 | 553.4 | 555.6 | 659.2    | 134.5 | 471.8  | 526.9 | 540.1  | 639.3 | 91.9             |    |                                                                                     |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 129.0 | 522.5            | 622.8 | 143.3 | 418.9 | 471.8            | 493.8 | 535.7 | 540.1 | 617.3    | 121.3 | 467.4  | 509.3 | 524.7  | 606.3 | 98.4             |    |                                                                                     |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 108.0 | 488.7            | 541.2 | 122.0 | 400.5 | 459.3            | 460.8 | 499.0 | 507.8 | 539.0    | 101.3 | 435.8  | 474.0 | 489.4  | 536.8 | 111.5            |    |                                                                                     |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 88.0  | 446.1            | 476.2 | 102.5 | 375.5 | 438.0            | 427.7 | 463.0 | 469.6 | 472.9    | 82.5  | 406.4  | 439.5 | 454.9  | 470.7 | 124.7            |    |                                                                                     |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 69.2  | 394.6            | 424.0 | 84.9  | 363.8 | 401.2            | 392.4 | 427.7 | 425.5 | 420.3    | 64.8  | 377.0  | 405.7 | 421.1  | 418.1 | 137.8            |    |                                                                                     |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 55.7  | 352.0            | 377.0 | 71.1  | 346.9 | 358.6            | 351.3 | 383.6 | 381.4 | 374.8    | 51.3  | 344.7  | 374.8 | 378.5  | 372.6 | 150.9            |    |                                                                                     |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 43.9  | 315.3            | 341.7 | 59.0  | 326.3 | 321.9            | 314.5 | 343.9 | 342.5 | 338.0    | 39.5  | 312.3  | 341.7 | 340.2  | 335.8 | 164.0            |    |                                                                                     |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 33.7  | 284.4            | 309.4 | 48.7  | 295.4 | 291.0            | 282.2 | 308.6 | 308.6 | 305.7    | 29.3  | 280.0  | 306.4 | 306.4  | 303.5 | 177.2            |    |                                                                                     |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 25.9  | 257.9            | 280.0 | 40.6  | 270.4 | 264.6            | 257.2 | 282.2 | 280.7 | 277.8    | 21.4  | 255.0  | 280.0 | 278.5  | 275.6 | 190.3            |    |                                                                                     |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 18.9  | 235.2            | 256.5 | 33.4  | 247.7 | 241.8            | 234.4 | 258.7 | 256.5 | 254.3    | 14.2  | 232.4  | 256.5 | 254.3  | 252.1 | 203.4            |    |                                                                                     |
| 213.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 14.1  | 220.8            | 240.1 | 28.7  | 232.2 | 227.4            | 219.0 | 243.2 | 241.0 | 237.9    | 9.3   | 217.2  | 241.0 | 238.8  | 235.7 | 213.3            |    |                                                                                     |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12.6  | 216.1            | 235.5 | 27.1  | 227.1 | 222.7            | 213.8 | 238.1 | 235.9 | 233.3    | -     | 211.6  | 235.9 | 233.7  | 231.0 | 216.5            |    |                                                                                     |
| 223.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 9.9   | 207.2            | 226.3 | 24.5  | 219.4 | 214.6            | 205.5 | 229.3 | 226.5 | 224.1    | -     | 203.6  | 226.5 | 222.7  | 221.8 | 223.1            |    |                                                                                     |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | 199.5            | 217.2 | 21.8  | 211.6 | 206.5            | 197.5 | 220.5 | 217.2 | 215.0    | -     | 195.5  | 217.2 | 215.0  | 212.7 | 229.7            |    |                                                                                     |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | 184.8            | 201.0 | 17.1  | 196.9 | 191.1            | 182.6 | 204.3 | 202.1 | 199.3    | -     | 180.4  | 201.7 | 199.9  | 197.3 | 242.8            |    |                                                                                     |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | 170.9            | 186.3 | 13.0  | 183.0 | 177.5            | 168.7 | 189.6 | 187.4 | 185.2    | -     | 166.4  | 186.3 | 185.2  | 182.6 | 255.9            |    |                                                                                     |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | 159.1            | 173.1 | 9.3   | 170.9 | 165.7            | 157.6 | 177.1 | 174.9 | 172.0    | -     | 150.3  | 171.6 | 172.7  | 168.7 | 269.0            |    |                                                                                     |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | 148.3            | 162.0 | -     | 160.6 | 155.1            | 144.4 | 164.2 | 163.5 | 160.2    | -     | 134.1  | 155.8 | 159.1  | 157.6 | 282.2            |    |                                                                                     |
| 288.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | 143.3            | 156.5 | -     | 155.8 | 150.3            | 136.7 | 157.6 | 158.4 | 154.3    | -     | 126.0  | 147.3 | 151.8  | 152.1 | 288.7            |    |                                                                                     |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -                | -     | -     | 151.0 | 145.5            | 129.0 | 151.0 | 153.2 | 148.8    | -     | 121.3  | 140.0 | 144.4  | 147.3 | 295.3            |    |                                                                                     |
| 305.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -                | -     | -     | -     | -                | -     | -     | -     | -        | -     | 110.2  | 131.2 | 131.2  | 140.0 | 305.1            |    |                                                                                     |


0 lb
143,300 lb
275,600 lb
363,800 lb
452,000 lb
540,200 lb
628,400 lb
716,600 lb

LSL\_1 – LSL\_7:  36.1 ft – 62.3 ft

LSL\_9 – LSL\_11:  36.1 ft – 68.9 ft

LSL\_15:  42.7 ft – 68.9 ft

LSL\_15:  496,100 lb +  110,200 lb

|  363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s 360° ASME B30.5 |          |       |       |       |       |       |       |       |       |       |       |       |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|   354.3 ft  364.2 ft                                                                                                                                       |          |       |       |       |       |       |       |       |       |       |       |       |       |
|  LSL_1 LSL_2 LSL_7 LSL_9 LSL_11 LSL_15 LSL_7 LSL_9 LSL_11 LSL_15                                                                                                                                                                                                                                                               |          |       |       |       |       |       |       |       |       |       |       |       |       |
|  0 lb 0 lb - 716.6 klb 0 lb 0 lb - 716.6 klb                                                                                                                                                                                                                                                                                   |          |       |       |       |       |       |       |       |       |       |       |       |       |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1,000 lb |       |       |       |       |       |       |       |       |       |       |       | ft    |
| 42.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 337.3    | 390.2 | 429.9 | 478.4 | 533.5 | 553.4 | 619.5 | 308.6 | 456.4 | 509.3 | 529.1 | 619.5 | 42.7  |
| 45.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 315.3    | 390.2 | 429.9 | 478.4 | 533.5 | 553.4 | 619.5 | 286.6 | 456.4 | 509.3 | 529.1 | 619.5 | 45.9  |
| 52.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 275.6    | 390.2 | 429.9 | 478.4 | 533.5 | 549.0 | 619.5 | 251.3 | 456.4 | 509.3 | 526.9 | 619.5 | 52.5  |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 244.7    | 390.2 | 429.9 | 478.4 | 533.5 | 546.7 | 619.5 | 220.5 | 451.9 | 509.3 | 524.7 | 619.5 | 59.1  |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 220.5    | 388.0 | 429.9 | 476.2 | 533.5 | 540.1 | 619.5 | 196.2 | 447.5 | 509.3 | 520.3 | 617.3 | 65.6  |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 198.4    | 388.0 | 429.9 | 471.8 | 533.5 | 537.9 | 619.5 | 175.3 | 443.1 | 509.3 | 515.9 | 612.9 | 72.2  |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 179.7    | 385.8 | 429.9 | 458.6 | 529.1 | 535.7 | 619.5 | 156.5 | 434.3 | 504.9 | 513.7 | 606.3 | 78.7  |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 163.1    | 385.8 | 427.7 | 451.9 | 524.7 | 526.9 | 617.3 | 141.1 | 427.7 | 500.4 | 502.7 | 595.2 | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 148.8    | 383.6 | 427.7 | 447.5 | 520.3 | 520.3 | 615.1 | 126.8 | 421.1 | 500.4 | 493.8 | 584.2 | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 135.6    | 383.6 | 427.7 | 443.1 | 518.1 | 507.1 | 590.8 | 114.6 | 416.7 | 496.0 | 482.8 | 565.5 | 98.4  |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 115.6    | 374.8 | 421.8 | 415.2 | 485.0 | 471.8 | 532.4 | 94.8  | 391.7 | 469.6 | 447.5 | 520.3 | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 97.5     | 359.4 | 406.4 | 386.5 | 456.4 | 437.3 | 468.5 | 77.2  | 365.2 | 443.9 | 413.7 | 465.2 | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 81.4     | 348.3 | 399.0 | 357.1 | 421.1 | 403.4 | 415.9 | 61.9  | 337.3 | 418.9 | 381.4 | 413.0 | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 67.5     | 332.9 | 356.4 | 330.7 | 378.5 | 371.1 | 370.4 | 48.3  | 310.9 | 376.3 | 352.0 | 366.0 | 150.9 |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 55.4     | 316.7 | 318.9 | 305.0 | 339.5 | 338.0 | 335.1 | 36.4  | 285.9 | 337.3 | 323.3 | 330.7 | 164.0 |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 45.0     | 293.2 | 286.6 | 280.0 | 304.2 | 304.2 | 303.5 | 26.2  | 262.4 | 302.0 | 295.4 | 299.1 | 177.2 |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 36.9     | 268.2 | 261.6 | 253.5 | 277.8 | 277.8 | 275.6 | 18.2  | 240.3 | 275.6 | 271.9 | 271.2 | 190.3 |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 29.6     | 245.4 | 239.2 | 230.4 | 254.3 | 253.5 | 252.1 | 10.9  | 219.7 | 251.3 | 249.6 | 249.1 | 203.4 |
| 206.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 28.0     | 240.3 | 234.2 | 225.4 | 249.1 | 248.0 | 246.2 | 9.3   | 215.0 | 245.8 | 244.3 | 243.6 | 206.7 |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 23.1     | 224.9 | 219.4 | 211.6 | 233.7 | 231.5 | 230.0 | -     | 200.6 | 229.3 | 227.1 | 227.1 | 216.5 |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 17.9     | 208.7 | 202.6 | 194.7 | 214.4 | 213.8 | 212.7 | -     | 182.2 | 212.4 | 208.7 | 210.5 | 229.7 |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 13.0     | 193.6 | 187.4 | 177.5 | 198.8 | 197.7 | 196.6 | -     | 164.6 | 196.6 | 190.7 | 194.4 | 242.8 |
| 252.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 9.7      | 183.0 | 177.5 | 164.2 | 187.8 | 186.7 | 185.2 | -     | 151.9 | 185.6 | 177.5 | 183.0 | 252.6 |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | 179.7 | 174.2 | 159.8 | 184.1 | 183.0 | 181.9 | -     | 147.7 | 181.9 | 173.1 | 179.7 | 255.9 |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | 167.9 | 162.4 | 142.9 | 171.6 | 169.0 | 168.7 | -     | 132.3 | 169.4 | 156.2 | 166.4 | 269.0 |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | 156.9 | 151.4 | 127.5 | 160.2 | 153.6 | 156.9 | -     | 117.4 | 158.0 | 141.5 | 154.7 | 282.2 |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | 146.6 | 141.1 | 113.5 | 149.9 | 136.7 | 146.2 | -     | 103.2 | 147.7 | 126.8 | 143.3 | 295.3 |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | 137.8 | 133.2 | 99.3  | 141.1 | 123.2 | 136.7 | -     | 90.4  | 138.2 | 111.7 | 132.3 | 308.4 |
| 311.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | 135.6 | 131.2 | 95.7  | 138.9 | 120.2 | 134.5 | -     | 87.5  | 135.8 | 109.7 | 130.1 | 311.7 |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -     | -     | -     | -     | -     | -     | -     | 78.0  | 130.1 | 100.5 | 123.5 | 321.5 |

|                                                                                     |      |            |            |            |            |            |            |            |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|------------|
|  | 0 lb | 143,300 lb | 275,600 lb | 363,800 lb | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|------------|

LSL\_1 – LSL\_7:  36.1 ft – 62.3 ft

LSL\_9 – LSL\_11:  36.1 ft – 68.9 ft

LSL\_15:  42.7 ft – 68.9 ft

LSL\_15:  496,100 lb +  110,200 lb



LSL\_1 – LSL\_7:  36.1 ft – 62.3 ft  
LSL\_9 – LSL\_13:  36.1 ft – 68.9 ft  
LSL\_15:  42.7 ft – 68.9 ft

LSL\_15:  496,100 lb +  110,200 lb

| 363,800 lb + 110,200 lb 36.1-68.9 ft 27.6 ft 32.2 ft/s 360° ASME B30.5 |       |                  |       |       |       |        |        |        |       |          |       |                  |        |        |       |       |  |
|------------------------------------------------------------------------|-------|------------------|-------|-------|-------|--------|--------|--------|-------|----------|-------|------------------|--------|--------|-------|-------|--|
| 413.4 ft                                                               |       |                  |       |       |       |        |        |        |       | 423.2 ft |       |                  |        |        |       |       |  |
| LSL_1                                                                  |       | LSL_2            | LSL_5 | LSL_7 | LSL_9 | LSL_11 | LSL_13 | LSL_15 | LSL_5 | LSL_7    | LSL_9 | LSL_11           | LSL_13 | LSL_15 |       |       |  |
| 0 lb                                                                   |       | 0 lb - 716.6 klb |       |       |       |        |        |        |       | 0 lb     |       | 0 lb - 716.6 klb |        |        |       |       |  |
| ft                                                                     |       | 1,000 lb         |       |       |       |        |        |        |       |          |       |                  |        |        |       | ft    |  |
| 45.9                                                                   | 255.7 | 262.4            | 293.2 | 321.9 | 343.9 | 394.6  | 412.3  | 429.9  | 485.0 | -        | -     | -                | -      | -      | -     | 45.9  |  |
| 49.2                                                                   | 251.3 | 261.2            | 292.1 | 321.9 | 343.9 | 394.6  | 412.3  | 429.9  | 485.0 | 240.3    | 302.0 | 326.3            | 377.0  | 392.4  | 410.1 | 460.8 |  |
| 52.5                                                                   | 246.9 | 260.1            | 291.0 | 321.9 | 343.9 | 394.6  | 412.3  | 429.9  | 485.0 | 224.9    | 302.0 | 326.3            | 377.0  | 392.4  | 410.1 | 460.8 |  |
| 59.1                                                                   | 220.5 | 260.1            | 291.0 | 321.9 | 343.9 | 392.4  | 412.3  | 429.9  | 485.0 | 199.5    | 302.0 | 324.1            | 374.8  | 392.4  | 410.1 | 460.8 |  |
| 65.6                                                                   | 197.3 | 260.1            | 291.0 | 319.7 | 343.9 | 392.4  | 412.3  | 429.9  | 485.0 | 177.5    | 299.8 | 324.1            | 374.8  | 392.4  | 410.1 | 460.8 |  |
| 72.2                                                                   | 177.5 | 257.9            | 291.0 | 319.7 | 343.9 | 390.2  | 412.3  | 427.7  | 485.0 | 157.6    | 299.8 | 324.1            | 372.6  | 392.4  | 407.9 | 460.8 |  |
| 78.7                                                                   | 159.8 | 255.7            | 288.8 | 319.7 | 343.9 | 388.0  | 410.1  | 427.7  | 485.0 | 141.1    | 299.8 | 324.1            | 370.4  | 390.2  | 407.9 | 456.4 |  |
| 85.3                                                                   | 145.5 | 253.5            | 286.6 | 317.5 | 341.7 | 385.8  | 407.9  | 423.3  | 478.4 | 126.8    | 297.6 | 321.9            | 370.4  | 388.0  | 403.4 | 449.7 |  |
| 91.9                                                                   | 132.3 | 251.3            | 286.6 | 317.5 | 339.5 | 385.8  | 407.9  | 418.9  | 474.0 | 113.5    | 297.6 | 319.7            | 368.2  | 388.0  | 403.4 | 445.3 |  |
| 98.4                                                                   | 120.2 | 251.3            | 286.6 | 315.3 | 337.3 | 381.4  | 403.4  | 416.7  | 464.1 | 102.7    | 295.4 | 319.7            | 366.0  | 383.6  | 399.0 | 434.3 |  |
| 111.5                                                                  | 101.5 | 247.7            | 283.7 | 312.3 | 334.4 | 374.1  | 393.9  | 400.5  | 439.8 | 84.1     | 293.9 | 315.3            | 360.1  | 377.0  | 387.3 | 409.0 |  |
| 124.7                                                                  | 85.1  | 244.0            | 280.0 | 306.4 | 324.8 | 363.8  | 378.5  | 382.1  | 411.2 | 67.8     | 289.5 | 307.9            | 350.5  | 363.0  | 374.8 | 381.4 |  |
| 137.8                                                                  | 71.0  | 238.1            | 275.6 | 297.6 | 313.1 | 350.5  | 363.8  | 361.6  | 382.1 | 54.0     | 282.2 | 297.6            | 337.3  | 348.3  | 357.1 | 354.2 |  |
| 150.9                                                                  | 59.8  | 233.7            | 271.2 | 288.8 | 304.2 | 336.6  | 343.2  | 336.6  | 352.7 | 43.1     | 274.8 | 286.6            | 323.3  | 329.2  | 335.1 | 326.3 |  |
| 164.0                                                                  | 49.0  | 227.8            | 262.4 | 280.7 | 290.3 | 318.9  | 321.1  | 314.5  | 321.9 | 33.2     | 268.2 | 276.3            | 309.4  | 311.6  | 313.8 | 302.8 |  |
| 177.2                                                                  | 38.6  | 220.5            | 257.9 | 273.4 | 271.2 | 295.4  | 293.2  | 291.0  | 292.5 | 24.3     | 262.4 | 264.6            | 293.2  | 291.0  | 288.8 | 280.0 |  |
| 190.3                                                                  | 30.4  | 213.8            | 247.7 | 249.9 | 244.7 | 267.5  | 266.8  | 264.6  | 264.6 | 16.2     | 246.2 | 241.0            | 265.0  | 262.4  | 262.4 | 257.9 |  |
| 200.1                                                                  | 24.6  | 209.1            | 239.8 | 233.0 | 226.7 | 248.4  | 248.0  | 246.0  | 244.7 | 10.4     | 231.5 | 224.5            | 246.2  | 246.0  | 243.8 | 241.4 |  |
| 203.4                                                                  | 23.0  | 207.6            | 234.8 | 227.8 | 221.9 | 243.2  | 242.5  | 240.7  | 239.6 | -        | 226.6 | 219.7            | 241.0  | 240.7  | 238.5 | 235.9 |  |
| 216.5                                                                  | 16.5  | 201.7            | 215.0 | 209.4 | 202.8 | 222.7  | 220.5  | 219.4  | 220.1 | -        | 207.2 | 200.6            | 220.5  | 219.4  | 217.2 | 215.3 |  |
| 229.7                                                                  | 11.1  | 196.2            | 198.0 | 192.5 | 185.9 | 205.0  | 203.6  | 198.8  | 201.7 | -        | 190.3 | 183.0            | 202.1  | 201.0  | 199.5 | 196.2 |  |
| 232.9                                                                  | 9.7   | 195.1            | 193.8 | 188.3 | 181.7 | 200.6  | 199.3  | 193.6  | 197.7 | -        | 186.1 | 178.6            | 197.5  | 196.4  | 195.1 | 191.6 |  |
| 242.8                                                                  | -     | 187.0            | 182.6 | 177.1 | 170.1 | 188.5  | 187.4  | 178.9  | 185.6 | -        | 174.9 | 166.4            | 185.6  | 184.5  | 181.9 | 177.8 |  |
| 255.9                                                                  | -     | 173.1            | 168.7 | 163.1 | 155.4 | 173.1  | 172.0  | 159.8  | 170.9 | -        | 160.9 | 151.0            | 170.9  | 169.8  | 164.2 | 160.2 |  |
| 269.0                                                                  | -     | 161.3            | 156.9 | 151.4 | 142.9 | 160.6  | 159.5  | 143.7  | 157.6 | -        | 149.2 | 138.9            | 155.4  | 155.1  | 146.6 | 143.3 |  |
| 282.2                                                                  | -     | 150.3            | 145.9 | 140.4 | 130.8 | 149.0  | 147.7  | 127.9  | 145.5 | -        | 138.0 | 126.8            | 141.1  | 141.1  | 130.8 | 127.9 |  |
| 295.3                                                                  | -     | 140.0            | 135.6 | 130.1 | 119.0 | 138.9  | 137.8  | 115.7  | 129.0 | -        | 127.9 | 115.7            | 127.9  | 127.9  | 116.8 | 112.8 |  |
| 308.4                                                                  | -     | 131.2            | 126.8 | 120.6 | 109.6 | 127.1  | 127.5  | 106.3  | 113.5 | -        | 117.6 | 106.3            | 116.8  | 116.8  | 105.8 | 98.1  |  |
| 321.5                                                                  | -     | 123.1            | 119.0 | 111.6 | 100.6 | 116.8  | 117.8  | 98.4   | 99.3  | -        | 108.2 | 97.3             | 106.6  | 106.9  | 96.6  | 84.0  |  |
| 334.6                                                                  | -     | 115.7            | 111.3 | 103.2 | 91.9  | 107.8  | 108.7  | 91.9   | 85.2  | -        | 99.9  | 88.6             | 97.2   | 98.1   | 89.1  | 70.3  |  |
| 347.8                                                                  | -     | 106.4            | 104.7 | 95.5  | 84.2  | 100.3  | 101.5  | 88.8   | 71.4  | -        | 92.2  | 81.0             | 89.4   | 90.5   | 84.8  | 57.1  |  |
| 360.9                                                                  | -     | 94.1             | 95.4  | 88.5  | 77.3  | 93.5   | 94.9   | 86.9   | 58.6  | -        | 85.1  | 73.9             | 82.4   | 83.4   | 81.6  | 44.6  |  |
| 364.2                                                                  | -     | 91.1             | 92.4  | 86.9  | 75.6  | 91.9   | 93.5   | 86.6   | 55.6  | -        | 83.5  | 72.3             | 80.8   | 81.8   | 81.5  | 41.6  |  |
| 374.0                                                                  | -     | -                | -     | -     | -     | -      | -      | -      | -     | -        | 78.7  | 67.5             | 76.1   | 77.6   | 81.1  | 32.8  |  |


0 lb
143,300 lb
275,600 lb
363,800 lb
452,000 lb
540,200 lb
628,400 lb
716,600 lb

LSL\_1 – LSL\_7:  36.1 ft – 62.3 ft

LSL\_9 – LSL\_13:  36.1 ft – 68.9 ft

LSL\_15:  42.7 ft – 68.9 ft

LSL\_15:  496,100 lb +  110,200 lb



LSL\_1 – LSL\_7:  36.1 ft – 62.3 ft  
LSL\_9 – LSL\_13:  36.1 ft – 68.9 ft  
LSL\_15:  42.7 ft – 68.9 ft

LSL\_15:  496,100 lb +  110,200 lb

LSL\_1 – LSL\_7:  36.1 ft – 62.3 ft  
 LSL\_9 – LSL\_13:  36.1 ft – 68.9 ft  
 LSL\_15:  42.7 ft – 68.9 ft  
 LSL\_15:  496,100 lb +  110,200 lb



| <div><div><div><div></div><div>363,800 lb + <div></div></div></div><div><div></div><div>110,200 lb</div></div><div><div></div><div>36.1-68.9 ft</div></div><div><div></div><div>27.6 ft</div></div><div><div></div><div>32.2 ft/s</div></div><div><div></div><div>360°</div></div><div><div></div><div>ASME B30.5</div></div></div></div> |       |          |       |       |       |       |       |       |       |                                                  |       |       |       |       |       |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|-------|-------|-------|-------|-------|-------|-------|--------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| 472.4 ft                                                                                                                                                                                                                                                                                                                                  |       |          |       |       |       |       |       |       |       | 482.3 ft                                         |       |       |       |       |       |       |       |
| LSL_1   LSL_2   LSL_5   LSL_7   LSL_9   LSL_11   LSL_13   LSL_15                                                                                                                                                                                                                                                                          |       |          |       |       |       |       |       |       |       | LSL_5   LSL_7   LSL_9   LSL_11   LSL_13   LSL_15 |       |       |       |       |       |       |       |
| 0 lb   0 lb - 716.6 klb                                                                                                                                                                                                                                                                                                                   |       |          |       |       |       |       |       |       |       | 0 lb   0 lb - 716.6 klb                          |       |       |       |       |       |       |       |
| ft                                                                                                                                                                                                                                                                                                                                        |       | 1,000 lb |       |       |       |       |       |       |       |                                                  |       |       |       |       |       | ft    |       |
| 52.5                                                                                                                                                                                                                                                                                                                                      | 160.9 | 166.4    | 189.6 | 224.9 | 233.7 | 277.8 | 293.2 | 313.1 | 343.9 | 198.4                                            | 213.8 | 222.7 | 264.6 | 277.8 | 297.6 | 326.3 | 52.5  |
| 59.1                                                                                                                                                                                                                                                                                                                                      | 159.8 | 165.3    | 188.5 | 224.9 | 233.7 | 275.6 | 293.2 | 313.1 | 343.9 | 174.2                                            | 212.7 | 220.5 | 262.4 | 277.8 | 297.6 | 326.3 | 59.1  |
| 65.6                                                                                                                                                                                                                                                                                                                                      | 158.7 | 163.1    | 187.4 | 222.7 | 231.5 | 275.6 | 293.2 | 310.9 | 343.9 | 154.3                                            | 211.6 | 220.5 | 262.4 | 277.8 | 297.6 | 326.3 | 65.6  |
| 72.2                                                                                                                                                                                                                                                                                                                                      | 156.5 | 162.0    | 186.3 | 222.7 | 231.5 | 275.6 | 291.0 | 310.9 | 343.9 | 136.7                                            | 211.6 | 220.5 | 262.4 | 277.8 | 297.6 | 326.3 | 72.2  |
| 78.7                                                                                                                                                                                                                                                                                                                                      | 144.4 | 159.8    | 185.2 | 222.7 | 231.5 | 273.4 | 291.0 | 308.6 | 343.9 | 121.3                                            | 210.5 | 220.5 | 262.4 | 275.6 | 297.6 | 326.3 | 78.7  |
| 85.3                                                                                                                                                                                                                                                                                                                                      | 130.1 | 157.6    | 183.0 | 222.7 | 231.5 | 273.4 | 288.8 | 308.6 | 341.7 | 108.0                                            | 210.5 | 219.4 | 260.1 | 275.6 | 295.4 | 324.1 | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                                      | 117.9 | 156.5    | 181.9 | 220.5 | 229.3 | 273.4 | 286.6 | 306.4 | 339.5 | 96.1                                             | 210.5 | 218.3 | 260.1 | 273.4 | 293.2 | 321.9 | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                      | 107.8 | 154.3    | 179.7 | 220.5 | 227.1 | 273.4 | 286.6 | 304.2 | 338.4 | 85.5                                             | 209.4 | 217.2 | 260.1 | 273.4 | 291.0 | 320.8 | 98.4  |
| 111.5                                                                                                                                                                                                                                                                                                                                     | 90.0  | 150.6    | 177.1 | 218.3 | 224.1 | 269.0 | 280.7 | 298.4 | 335.1 | 68.0                                             | 207.2 | 214.2 | 257.2 | 269.0 | 286.6 | 317.5 | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                     | 74.4  | 147.3    | 174.9 | 215.7 | 221.2 | 264.6 | 269.7 | 289.5 | 328.5 | 52.8                                             | 205.0 | 211.6 | 252.8 | 263.1 | 277.8 | 312.0 | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                     | 60.8  | 144.4    | 172.0 | 212.7 | 218.3 | 260.1 | 262.4 | 280.0 | 317.5 | 39.7                                             | 202.8 | 209.4 | 246.9 | 255.7 | 269.0 | 302.8 | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                                     | 50.4  | 140.7    | 168.3 | 208.3 | 210.9 | 254.3 | 252.8 | 269.7 | 304.2 | 29.2                                             | 198.4 | 205.0 | 241.0 | 246.2 | 259.4 | 291.0 | 150.9 |
| 164.0                                                                                                                                                                                                                                                                                                                                     | 40.9  | 136.7    | 164.6 | 203.9 | 203.2 | 248.4 | 242.5 | 257.9 | 285.1 | 19.9                                             | 194.4 | 198.4 | 235.9 | 238.1 | 246.9 | 276.3 | 164.0 |
| 177.2                                                                                                                                                                                                                                                                                                                                     | 32.4  | 132.3    | 160.9 | 199.5 | 197.3 | 242.5 | 233.7 | 249.1 | 265.3 | 11.7                                             | 190.7 | 194.0 | 231.5 | 231.5 | 240.3 | 257.9 | 177.2 |
| 180.4                                                                                                                                                                                                                                                                                                                                     | 30.7  | 131.4    | 160.0 | 198.4 | 196.2 | 240.3 | 231.5 | 244.7 | 260.1 | 9.9                                              | 189.8 | 191.3 | 230.0 | 228.9 | 236.3 | 252.4 | 180.4 |
| 190.3                                                                                                                                                                                                                                                                                                                                     | 25.5  | 128.6    | 157.3 | 195.7 | 190.3 | 235.9 | 224.9 | 238.1 | 242.5 | -                                                | 187.0 | 186.7 | 225.6 | 223.4 | 229.3 | 235.9 | 190.3 |
| 203.4                                                                                                                                                                                                                                                                                                                                     | 19.1  | 124.9    | 153.2 | 190.0 | 184.1 | 226.0 | 216.8 | 226.3 | 222.7 | -                                                | 183.4 | 180.4 | 216.8 | 215.7 | 219.0 | 216.8 | 203.4 |
| 216.5                                                                                                                                                                                                                                                                                                                                     | 13.2  | 121.3    | 149.9 | 186.3 | 177.5 | 210.5 | 209.4 | 211.6 | 203.6 | -                                                | 179.7 | 175.3 | 205.0 | 206.1 | 207.2 | 198.4 | 216.5 |
| 226.4                                                                                                                                                                                                                                                                                                                                     | 8.8   | 118.5    | 145.5 | 178.0 | 173.6 | 198.4 | 198.4 | 199.0 | 189.8 | -                                                | 172.5 | 171.4 | 193.5 | 194.6 | 194.6 | 185.2 | 226.4 |
| 229.7                                                                                                                                                                                                                                                                                                                                     | -     | 117.6    | 144.8 | 175.3 | 172.3 | 194.4 | 194.7 | 194.7 | 185.2 | -                                                | 170.1 | 170.1 | 189.6 | 190.7 | 190.3 | 180.8 | 229.7 |
| 242.8                                                                                                                                                                                                                                                                                                                                     | -     | 113.9    | 140.7 | 163.9 | 163.9 | 178.9 | 180.0 | 178.6 | 169.0 | -                                                | 159.5 | 160.9 | 174.9 | 175.6 | 174.5 | 164.6 | 242.8 |
| 255.9                                                                                                                                                                                                                                                                                                                                     | -     | 110.2    | 136.7 | 152.1 | 152.1 | 164.2 | 165.3 | 163.1 | 153.6 | -                                                | 147.7 | 147.7 | 160.9 | 160.9 | 159.8 | 149.5 | 255.9 |
| 269.0                                                                                                                                                                                                                                                                                                                                     | -     | 106.6    | 133.7 | 139.8 | 139.8 | 151.9 | 152.1 | 150.5 | 138.9 | -                                                | 136.0 | 136.0 | 147.0 | 147.7 | 146.6 | 135.6 | 269.0 |
| 282.2                                                                                                                                                                                                                                                                                                                                     | -     | 103.0    | 128.6 | 129.0 | 129.0 | 140.0 | 140.0 | 138.9 | 127.1 | -                                                | 124.2 | 124.6 | 135.6 | 135.6 | 134.5 | 123.1 | 282.2 |
| 295.3                                                                                                                                                                                                                                                                                                                                     | -     | 99.0     | 125.7 | 117.9 | 117.9 | 129.0 | 129.0 | 127.9 | 116.2 | -                                                | 112.4 | 113.5 | 124.6 | 124.6 | 123.5 | 111.7 | 295.3 |
| 308.4                                                                                                                                                                                                                                                                                                                                     | -     | 92.5     | 115.7 | 105.3 | 108.2 | 117.9 | 118.7 | 117.6 | 106.0 | -                                                | 100.7 | 104.4 | 114.9 | 114.9 | 113.6 | 101.6 | 308.4 |
| 321.5                                                                                                                                                                                                                                                                                                                                     | -     | 84.8     | 104.8 | 92.7  | 99.2  | 108.1 | 108.9 | 107.7 | 96.6  | -                                                | 88.8  | 95.7  | 105.4 | 105.3 | 103.4 | 92.4  | 321.5 |
| 334.6                                                                                                                                                                                                                                                                                                                                     | -     | 77.2     | 94.8  | 80.2  | 90.8  | 99.4  | 99.6  | 98.3  | 87.7  | -                                                | 76.9  | 87.5  | 96.1  | 95.9  | 93.0  | 83.6  | 334.6 |
| 347.8                                                                                                                                                                                                                                                                                                                                     | -     | 70.0     | 83.9  | 69.2  | 82.2  | 91.0  | 91.0  | 89.8  | 79.4  | -                                                | 66.5  | 79.9  | 87.7  | 87.5  | 83.5  | 75.2  | 347.8 |
| 360.9                                                                                                                                                                                                                                                                                                                                     | -     | 62.9     | 72.8  | 59.4  | 71.9  | 83.2  | 82.4  | 82.0  | 71.5  | -                                                | 56.9  | 71.0  | 79.9  | 79.7  | 74.6  | 67.5  | 360.9 |
| 374.0                                                                                                                                                                                                                                                                                                                                     | -     | 55.1     | 62.8  | 50.7  | 60.6  | 75.8  | 73.4  | 74.5  | 64.3  | -                                                | 48.1  | 60.8  | 72.5  | 72.3  | 66.4  | 60.3  | 374.0 |
| 387.1                                                                                                                                                                                                                                                                                                                                     | -     | 47.5     | 51.4  | 43.4  | 51.6  | 69.3  | 65.3  | 67.9  | 57.5  | -                                                | 40.6  | 51.6  | 65.9  | 64.1  | 59.3  | 53.6  | 387.1 |
| 400.3                                                                                                                                                                                                                                                                                                                                     | -     | 39.8     | 40.5  | 36.7  | 44.6  | 63.4  | 58.2  | 62.1  | 51.4  | -                                                | 33.8  | 43.5  | 59.8  | 56.2  | 52.8  | 47.4  | 400.3 |
| 413.4                                                                                                                                                                                                                                                                                                                                     | -     | 32.4     | 29.5  | 31.3  | 38.6  | 58.0  | 52.0  | 56.7  | 45.9  | -                                                | 27.8  | 37.0  | 54.2  | 49.2  | 47.0  | 41.7  | 413.4 |
| 416.7                                                                                                                                                                                                                                                                                                                                     | -     | 30.4     | 26.7  | 30.2  | 37.5  | 56.7  | 50.7  | 55.3  | 44.5  | -                                                | 26.5  | 35.6  | 53.0  | 47.8  | 45.7  | 40.3  | 416.7 |
| 423.2                                                                                                                                                                                                                                                                                                                                     | -     | -        | -     | -     | -     | -     | -     | -     | -     | -                                                | 24.0  | 32.8  | 50.5  | 45.0  | 43.4  | 37.7  | 423.2 |


0 lb
143,300 lb
275,600 lb
363,800 lb
452,000 lb
540,200 lb
628,400 lb
716,600 lb

LSL\_1 – LSL\_7:  36.1 ft – 62.3 ft

LSL\_9 – LSL\_13:  36.1 ft – 68.9 ft

LSL\_15:  42.7 ft – 68.9 ft

LSL\_15:  496,100 lb +  110,200 lb

| <div><div><div><div></div></div><div>363,800 lb + <div><div></div><div></div></div></div><div>110,200 lb <div><div></div><div></div></div></div><div>36.1-68.9 ft <div><div></div><div></div></div></div><div>27.6 ft <div><div></div><div></div></div></div><div>32.2 ft/s <div><div></div><div></div></div></div><div>360° <div><div></div><div></div></div></div><div>ASME B30.5</div></div></div> |          |                  |       |        |        |        |       |          |       |                  |        |        |        |       |       |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------|-------|--------|--------|--------|-------|----------|-------|------------------|--------|--------|--------|-------|-------|--|--|
| 492.1 ft                                                                                                                                                                                                                                                                                                                                                                                              |          |                  |       |        |        |        |       | 502.0 ft |       |                  |        |        |        |       |       |  |  |
| LSL_5                                                                                                                                                                                                                                                                                                                                                                                                 |          | LSL_7            | LSL_9 | LSL_11 | LSL_13 | LSL_15 | LSL_5 |          | LSL_7 | LSL_9            | LSL_11 | LSL_13 | LSL_15 |       |       |  |  |
| 0 lb                                                                                                                                                                                                                                                                                                                                                                                                  |          | 0 lb - 716.6 klb |       |        |        |        |       | 0 lb     |       | 0 lb - 716.6 klb |        |        |        |       |       |  |  |
| ft                                                                                                                                                                                                                                                                                                                                                                                                    | 1,000 lb |                  |       |        |        |        |       |          |       |                  |        |        |        |       | ft    |  |  |
| 52.5                                                                                                                                                                                                                                                                                                                                                                                                  | 191.8    | 199.5            | 210.5 | 249.1  | 262.4  | 284.4  | 310.9 | -        | -     | -                | -      | -      | -      | -     | 52.5  |  |  |
| 55.8                                                                                                                                                                                                                                                                                                                                                                                                  | 182.4    | 199.0            | 210.5 | 249.1  | 262.4  | 284.4  | 310.9 | 179.7    | 189.6 | 199.5            | 238.1  | 249.1  | 269.0  | 293.2 | 55.8  |  |  |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                  | 174.2    | 198.4            | 210.5 | 249.1  | 262.4  | 284.4  | 310.9 | 169.8    | 189.6 | 199.5            | 238.1  | 249.1  | 269.0  | 293.2 | 59.1  |  |  |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                  | 154.3    | 198.4            | 209.4 | 249.1  | 262.4  | 282.2  | 310.9 | 149.9    | 188.5 | 198.4            | 235.9  | 249.1  | 269.0  | 293.2 | 65.6  |  |  |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                  | 136.7    | 197.3            | 208.3 | 246.9  | 262.4  | 282.2  | 310.9 | 132.3    | 187.4 | 198.4            | 235.9  | 249.1  | 269.0  | 293.2 | 72.2  |  |  |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                  | 121.3    | 196.2            | 208.3 | 246.9  | 262.4  | 282.2  | 308.6 | 117.9    | 186.3 | 197.3            | 235.9  | 249.1  | 269.0  | 293.2 | 78.7  |  |  |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                  | 108.7    | 196.2            | 207.2 | 246.9  | 260.1  | 282.2  | 307.5 | 105.2    | 186.3 | 196.2            | 235.9  | 246.9  | 266.8  | 291.0 | 85.3  |  |  |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                  | 97.0     | 195.1            | 206.1 | 246.9  | 260.1  | 280.0  | 306.4 | 93.5     | 185.2 | 196.2            | 233.7  | 246.9  | 266.8  | 288.8 | 91.9  |  |  |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                  | 86.4     | 194.0            | 205.0 | 244.7  | 257.9  | 280.0  | 304.2 | 83.1     | 184.1 | 195.1            | 233.7  | 244.7  | 264.6  | 287.7 | 98.4  |  |  |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                 | 69.2     | 191.8            | 202.8 | 241.8  | 255.0  | 274.1  | 302.0 | 66.1     | 182.6 | 192.9            | 230.8  | 241.8  | 260.1  | 285.5 | 111.5 |  |  |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                 | 54.1     | 189.2            | 200.6 | 238.8  | 248.4  | 265.3  | 297.6 | 51.1     | 180.8 | 191.1            | 227.8  | 237.4  | 254.3  | 282.2 | 124.7 |  |  |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                 | 41.0     | 186.3            | 198.4 | 235.9  | 242.5  | 257.9  | 288.8 | 38.1     | 178.6 | 189.6            | 224.9  | 231.5  | 246.9  | 274.8 | 137.8 |  |  |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                 | 30.9     | 182.6            | 194.7 | 230.0  | 235.2  | 248.4  | 277.8 | 28.0     | 175.6 | 185.9            | 219.0  | 224.1  | 237.4  | 264.6 | 150.9 |  |  |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                 | 21.6     | 178.9            | 188.9 | 224.4  | 228.5  | 240.3  | 267.5 | 18.8     | 172.4 | 182.6            | 213.8  | 218.9  | 227.5  | 255.7 | 164.0 |  |  |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                 | 13.2     | 175.3            | 185.2 | 219.4  | 220.5  | 229.3  | 250.9 | 10.6     | 168.7 | 179.7            | 208.3  | 212.7  | 220.5  | 242.5 | 177.2 |  |  |
| 180.4                                                                                                                                                                                                                                                                                                                                                                                                 | 11.5     | 173.1            | 183.2 | 218.3  | 218.8  | 226.5  | 246.0 | 8.8      | 167.9 | 177.7            | 207.1  | 211.3  | 218.3  | 238.1 | 180.4 |  |  |
| 183.7                                                                                                                                                                                                                                                                                                                                                                                                 | 9.7      | 172.2            | 181.1 | 217.2  | 217.2  | 223.8  | 241.2 | -        | 167.2 | 175.6            | 205.8  | 209.8  | 216.1  | 233.7 | 183.7 |  |  |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                 | -        | 170.4            | 178.6 | 215.0  | 213.8  | 220.5  | 231.5 | -        | 165.7 | 173.8            | 203.2  | 206.9  | 212.7  | 224.9 | 190.3 |  |  |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                 | -        | 165.7            | 173.4 | 208.7  | 207.6  | 212.4  | 212.4 | -        | 161.7 | 169.0            | 198.4  | 199.2  | 205.8  | 206.5 | 203.4 |  |  |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                 | -        | 162.0            | 168.7 | 200.6  | 201.7  | 202.8  | 194.4 | -        | 158.7 | 165.3            | 194.0  | 194.0  | 198.4  | 188.9 | 216.5 |  |  |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                 | -        | 156.5            | 164.2 | 185.9  | 187.0  | 186.7  | 177.5 | -        | 152.9 | 160.9            | 180.8  | 180.8  | 182.2  | 172.0 | 229.7 |  |  |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                 | -        | 151.8            | 156.2 | 171.6  | 172.3  | 171.1  | 161.7 | -        | 147.7 | 152.6            | 167.6  | 167.0  | 166.8  | 156.5 | 242.8 |  |  |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                 | -        | 146.6            | 144.4 | 157.6  | 157.6  | 156.5  | 147.3 | -        | 141.1 | 140.0            | 153.2  | 153.2  | 152.1  | 142.2 | 255.9 |  |  |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                 | -        | 137.8            | 132.5 | 144.4  | 144.4  | 144.0  | 133.4 | -        | 134.1 | 129.0            | 140.7  | 140.7  | 139.6  | 129.0 | 269.0 |  |  |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                 | -        | 128.2            | 121.6 | 132.6  | 132.6  | 132.3  | 120.9 | -        | 123.8 | 118.3            | 129.0  | 129.0  | 127.1  | 116.5 | 282.2 |  |  |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                 | -        | 117.9            | 111.3 | 122.4  | 122.4  | 121.3  | 109.6 | -        | 113.5 | 108.0            | 117.9  | 117.9  | 114.6  | 105.6 | 295.3 |  |  |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                 | -        | 108.0            | 101.8 | 112.4  | 112.4  | 109.8  | 99.6  | -        | 104.3 | 98.5             | 108.7  | 108.4  | 102.0  | 95.2  | 308.4 |  |  |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                 | -        | 98.8             | 92.6  | 102.7  | 102.7  | 98.5   | 90.5  | -        | 95.1  | 89.4             | 99.4   | 98.8   | 90.1   | 86.3  | 321.5 |  |  |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                 | -        | 90.4             | 84.4  | 93.7   | 93.7   | 88.0   | 81.8  | -        | 86.9  | 80.9             | 90.4   | 89.3   | 78.9   | 77.4  | 334.6 |  |  |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                 | -        | 79.7             | 76.9  | 85.5   | 85.3   | 78.3   | 73.6  | -        | 75.7  | 73.6             | 82.2   | 78.1   | 69.1   | 69.4  | 347.8 |  |  |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                 | -        | 67.4             | 67.8  | 77.6   | 76.3   | 69.1   | 66.0  | -        | 63.9  | 65.3             | 72.5   | 67.5   | 59.8   | 61.9  | 360.9 |  |  |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                 | -        | 54.9             | 56.2  | 70.1   | 66.6   | 60.8   | 58.7  | -        | 51.8  | 56.2             | 62.2   | 57.8   | 51.4   | 54.7  | 374.0 |  |  |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                 | -        | 45.0             | 46.1  | 63.5   | 57.8   | 53.6   | 51.8  | -        | 41.8  | 45.3             | 53.1   | 49.1   | 44.2   | 47.8  | 387.1 |  |  |
| 400.3                                                                                                                                                                                                                                                                                                                                                                                                 | -        | 36.2             | 38.1  | 57.3   | 49.7   | 47.0   | 45.8  | -        | 33.1  | 35.7             | 44.5   | 40.9   | 37.5   | 41.8  | 400.3 |  |  |
| 413.4                                                                                                                                                                                                                                                                                                                                                                                                 | -        | 29.1             | 30.9  | 51.6   | 42.3   | 41.0   | 40.0  | -        | 25.4  | 28.7             | 37.0   | 34.0   | 31.7   | 35.9  | 413.4 |  |  |
| 426.5                                                                                                                                                                                                                                                                                                                                                                                                 | -        | 24.7             | 25.4  | 46.7   | 36.6   | 36.2   | 34.6  | -        | 20.5  | 22.9             | 30.7   | 27.9   | 27.2   | 30.6  | 426.5 |  |  |
| 433.1                                                                                                                                                                                                                                                                                                                                                                                                 | -        | 22.7             | 23.1  | 44.3   | 33.7   | 33.7   | 32.2  | -        | 18.1  | 20.1             | 27.6   | 24.9   | 24.9   | 28.2  | 433.1 |  |  |
| 439.6                                                                                                                                                                                                                                                                                                                                                                                                 | -        | -                | -     | -      | -      | -      | -     | -        | 15.9  | 17.6             | 25.1   | 22.5   | 23.1   | 25.8  | 439.6 |  |  |

|                                                                                     |      |            |            |            |            |            |            |            |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|------------|
|  | 0 lb | 143,300 lb | 275,600 lb | 363,800 lb | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|------------|

LSL\_5 - LSL\_7:  36.1 ft - 62.3 ft

LSL\_9 - LSL\_13:  36.1 ft - 68.9 ft

LSL\_15:  42.7 ft - 68.9 ft

LSL\_15:  496,100 lb +  110,200 lb

| 363,800 lb + 110,200 lb 36.1-68.9 ft 27.6 ft 32.2 ft/s 360° ASME B30.5 |                  |       |       |        |        |        |       |                  |       |       |        |        |        |       |       |
|------------------------------------------------------------------------|------------------|-------|-------|--------|--------|--------|-------|------------------|-------|-------|--------|--------|--------|-------|-------|
| 511.8 ft                                                               |                  |       |       |        |        |        |       | 521.7 ft         |       |       |        |        |        |       |       |
| LSL_5                                                                  |                  | LSL_7 | LSL_9 | LSL_11 | LSL_13 | LSL_15 | LSL_5 |                  | LSL_7 | LSL_9 | LSL_11 | LSL_13 | LSL_15 |       |       |
| 0 lb                                                                   | 0 lb - 716.6 klb |       |       |        |        |        | 0 lb  | 0 lb - 716.6 klb |       |       |        |        |        |       |       |
| ft                                                                     | 1,000 lb         |       |       |        |        |        |       |                  |       |       |        |        |        | ft    |       |
| 55.8                                                                   | 169.8            | 174.2 | 188.5 | 224.9  | 238.1  | 255.7  | 282.2 | 160.9            | 166.4 | 178.6 | 213.8  | 224.9  | 240.3  | 266.8 | 55.8  |
| 59.1                                                                   | 166.4            | 174.2 | 187.4 | 224.9  | 238.1  | 255.7  | 282.2 | 159.8            | 165.3 | 177.5 | 213.8  | 222.7  | 240.3  | 266.8 | 59.1  |
| 65.6                                                                   | 147.7            | 173.1 | 187.4 | 224.9  | 238.1  | 255.7  | 280.0 | 143.3            | 164.2 | 177.5 | 212.7  | 222.7  | 240.3  | 266.8 | 65.6  |
| 72.2                                                                   | 131.2            | 172.0 | 186.3 | 224.9  | 238.1  | 255.7  | 280.0 | 126.8            | 164.2 | 176.4 | 212.7  | 222.7  | 238.1  | 266.8 | 72.2  |
| 78.7                                                                   | 115.7            | 172.0 | 185.2 | 222.7  | 238.1  | 255.7  | 280.0 | 112.4            | 163.1 | 175.3 | 211.6  | 222.7  | 238.1  | 264.6 | 78.7  |
| 85.3                                                                   | 103.8            | 170.9 | 185.2 | 220.5  | 235.9  | 255.7  | 278.9 | 100.3            | 162.0 | 175.3 | 210.5  | 220.5  | 235.9  | 263.5 | 85.3  |
| 91.9                                                                   | 92.2             | 169.8 | 184.1 | 219.4  | 233.7  | 253.5  | 277.8 | 88.8             | 162.0 | 174.2 | 210.5  | 219.4  | 235.9  | 262.4 | 91.9  |
| 98.4                                                                   | 82.0             | 168.7 | 184.1 | 217.2  | 229.3  | 253.5  | 275.6 | 78.7             | 160.9 | 174.2 | 209.4  | 217.2  | 233.7  | 261.2 | 98.4  |
| 111.5                                                                  | 65.3             | 166.4 | 181.9 | 212.7  | 224.9  | 249.1  | 273.4 | 62.1             | 158.7 | 172.0 | 206.5  | 213.5  | 229.3  | 259.0 | 111.5 |
| 124.7                                                                  | 50.4             | 164.6 | 180.0 | 207.6  | 219.4  | 244.0  | 269.0 | 47.4             | 156.9 | 170.1 | 202.5  | 208.7  | 224.5  | 255.7 | 124.7 |
| 137.8                                                                  | 37.5             | 163.1 | 178.6 | 201.7  | 212.7  | 238.1  | 263.1 | 34.6             | 155.4 | 168.7 | 197.3  | 202.8  | 219.4  | 250.6 | 137.8 |
| 150.9                                                                  | 27.5             | 160.2 | 174.9 | 194.7  | 204.3  | 228.8  | 255.7 | 24.6             | 153.2 | 165.7 | 192.0  | 196.2  | 211.3  | 244.7 | 150.9 |
| 164.0                                                                  | 18.4             | 157.1 | 172.0 | 187.0  | 197.3  | 220.1  | 248.4 | 15.6             | 150.6 | 163.1 | 185.9  | 188.9  | 202.8  | 237.4 | 164.0 |
| 173.9                                                                  | 12.4             | 154.9 | 169.4 | 182.3  | 192.4  | 215.3  | 242.5 | 9.5              | 148.4 | 160.7 | 182.1  | 184.5  | 197.9  | 231.5 | 173.9 |
| 177.2                                                                  | 10.4             | 154.3 | 168.7 | 180.8  | 190.7  | 213.8  | 240.3 | -                | 147.7 | 159.8 | 180.8  | 183.0  | 196.2  | 229.3 | 177.2 |
| 190.3                                                                  | -                | 150.6 | 165.7 | 173.1  | 181.9  | 207.2  | 229.3 | -                | 144.8 | 156.9 | 173.8  | 175.3  | 187.4  | 220.5 | 190.3 |
| 203.4                                                                  | -                | 147.3 | 162.8 | 166.1  | 173.8  | 198.4  | 211.6 | -                | 141.8 | 154.0 | 167.2  | 167.9  | 180.0  | 204.3 | 203.4 |
| 216.5                                                                  | -                | 144.4 | 159.8 | 158.7  | 166.4  | 191.8  | 194.7 | -                | 138.9 | 151.0 | 162.0  | 162.0  | 172.0  | 188.5 | 216.5 |
| 229.7                                                                  | -                | 139.6 | 156.9 | 151.4  | 159.1  | 177.8  | 178.6 | -                | 136.0 | 148.1 | 155.8  | 155.1  | 165.3  | 173.1 | 229.7 |
| 242.8                                                                  | -                | 134.8 | 150.6 | 142.2  | 148.8  | 164.2  | 163.6 | -                | 131.7 | 144.4 | 147.7  | 146.6  | 153.2  | 158.4 | 242.8 |
| 255.9                                                                  | -                | 131.2 | 140.0 | 131.2  | 137.8  | 149.9  | 149.9 | -                | 126.8 | 135.6 | 136.7  | 134.5  | 135.6  | 144.8 | 255.9 |
| 269.0                                                                  | -                | 126.8 | 129.0 | 119.4  | 126.8  | 137.4  | 136.7 | -                | 122.4 | 124.6 | 125.7  | 122.7  | 118.7  | 132.3 | 269.0 |
| 282.2                                                                  | -                | 120.9 | 118.5 | 108.2  | 115.7  | 124.2  | 124.2 | -                | 116.8 | 114.3 | 115.0  | 111.0  | 103.3  | 119.8 | 282.2 |
| 295.3                                                                  | -                | 113.5 | 108.7 | 97.4   | 104.5  | 110.2  | 112.9 | -                | 110.2 | 104.9 | 104.7  | 99.4   | 88.8   | 108.6 | 295.3 |
| 308.4                                                                  | -                | 104.7 | 99.1  | 86.4   | 93.5   | 98.3   | 103.0 | -                | 101.3 | 95.5  | 93.9   | 87.5   | 74.9   | 98.5  | 308.4 |
| 321.5                                                                  | -                | 95.7  | 90.0  | 75.5   | 82.4   | 86.4   | 93.7  | -                | 92.4  | 86.5  | 82.9   | 76.1   | 61.9   | 89.3  | 321.5 |
| 334.6                                                                  | -                | 86.9  | 81.4  | 64.6   | 71.2   | 75.0   | 85.0  | -                | 83.6  | 77.8  | 71.9   | 64.6   | 50.0   | 80.5  | 334.6 |
| 347.8                                                                  | -                | 79.7  | 74.0  | 54.7   | 60.9   | 65.0   | 76.7  | -                | 76.2  | 70.3  | 60.8   | 54.7   | 39.7   | 72.5  | 347.8 |
| 360.9                                                                  | -                | 71.4  | 66.8  | 45.2   | 51.3   | 55.6   | 68.7  | -                | 68.3  | 63.5  | 50.5   | 45.4   | 30.6   | 65.0  | 360.9 |
| 374.0                                                                  | -                | 62.2  | 59.7  | 36.6   | 42.3   | 47.0   | 60.6  | -                | 56.9  | 56.9  | 40.8   | 36.6   | 22.3   | 57.9  | 374.0 |
| 387.1                                                                  | -                | 51.7  | 49.0  | 29.0   | 34.4   | 39.6   | 52.7  | -                | 45.7  | 45.9  | 32.3   | 28.8   | 15.0   | 51.4  | 387.1 |
| 400.3                                                                  | -                | 42.0  | 39.1  | 21.8   | 26.9   | 32.9   | 45.8  | -                | 36.4  | 36.0  | 24.4   | 21.5   | 9.0    | 44.9  | 400.3 |
| 413.4                                                                  | -                | 34.2  | 31.5  | 15.4   | 20.5   | 26.9   | 39.4  | -                | 27.6  | 27.8  | 17.2   | 14.8   | -      | 38.5  | 413.4 |
| 426.5                                                                  | -                | 26.7  | 24.8  | 9.7    | 14.9   | 22.2   | 33.5  | -                | 20.2  | 20.9  | 11.0   | 9.0    | -      | 32.2  | 426.5 |
| 429.8                                                                  | -                | 24.8  | 23.1  | -      | 13.5   | 21.0   | 32.2  | -                | 18.5  | 19.1  | 9.5    | -      | -      | 30.9  | 429.8 |
| 439.6                                                                  | -                | 19.8  | 18.8  | -      | 9.7    | 18.1   | 28.5  | -                | 14.1  | 14.6  | -      | -      | -      | 26.9  | 439.6 |
| 449.5                                                                  | -                | 15.2  | 15.0  | -      | -      | 15.7   | 25.1  | -                | 10.8  | 10.8  | -      | -      | -      | 23.1  | 449.5 |
| 452.8                                                                  | -                | -     | -     | -      | -      | -      | -     | -                | 9.7   | 9.5   | -      | -      | -      | 22.0  | 452.8 |
| 459.3                                                                  | -                | -     | -     | -      | -      | -      | -     | -                | -     | -     | -      | -      | -      | 19.8  | 459.3 |


 0 lb    143,300 lb    275,600 lb    363,800 lb    452,000 lb    540,200 lb    628,400 lb    716,600 lb

LSL\_5 - LSL\_7:  36.1 ft - 62.3 ft

LSL\_9 - LSL\_13:  36.1 ft - 68.9 ft

LSL\_15:  42.7 ft - 68.9 ft

LSL\_15:  496,100 lb +  110,200 lb

| <div> <div> <div></div> <div>363,800 lb + <div></div> 110,200 lb</div> </div> <div> <div></div> <div>36.1-68.9 ft</div> </div> <div> <div></div> <div>27.6 ft</div> </div> <div> <div></div> <div>32.2 ft/s</div> </div> <div> <div></div> <div>360°</div> </div> <div> <div></div> <div>ASME B30.5</div> </div> </div>                                                                                                                                  |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <div> <div> <div></div> <div>531.5 ft</div> </div> <div> <div></div> <div>541.3 ft</div> </div> <div> <div></div> <div>551.2 ft</div> </div> <div> <div></div> <div>561.0 ft</div> </div> </div>                                                                                                                                                                                                                                                         |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| <div> <div> <div></div> <div>LSL_9</div> </div> <div> <div></div> <div>LSL_11</div> </div> <div> <div></div> <div>LSL_13</div> </div> <div> <div></div> <div>LSL_15</div> </div> <div> <div></div> <div>LSL_9</div> </div> <div> <div></div> <div>LSL_11</div> </div> <div> <div></div> <div>LSL_13</div> </div> <div> <div></div> <div>LSL_15</div> </div> <div> <div></div> <div>LSL_13</div> </div> <div> <div></div> <div>LSL_15</div> </div> </div> |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| <div> <div> <div></div> <div>0 lb</div> </div> <div> <div></div> <div>0 lb - 716.6 klb</div> </div> <div> <div></div> <div>0 lb</div> </div> <div> <div></div> <div>0 lb - 716.6 klb</div> </div> <div> <div></div> <div>0 lb</div> </div> <div> <div></div> <div>0 - 716.6 klb</div> </div> <div> <div></div> <div>0 lb</div> </div> <div> <div></div> <div>0 - 716.6 klb</div> </div> </div>                                                           |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1,000 lb |       |       |       |       |       |       |       |       |       |       |       |       |       |       | ft    |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 155.4    | 201.7 | 211.6 | 229.3 | 253.5 | 151.0 | 189.6 | 199.5 | 216.1 | 240.3 | 144.4 | 202.8 | 229.3 | 140.0 | 191.8 | 215.0 |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 135.6    | 200.6 | 210.5 | 227.1 | 253.5 | 131.2 | 188.5 | 199.5 | 216.1 | 240.3 | 125.7 | 201.7 | 229.3 | 121.3 | 190.7 | 215.0 |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 119.0    | 199.5 | 210.5 | 227.1 | 251.3 | 114.6 | 187.4 | 198.4 | 215.0 | 238.1 | 110.0 | 201.7 | 227.1 | 105.6 | 189.6 | 213.8 |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 105.4    | 199.5 | 210.5 | 227.1 | 251.3 | 101.2 | 187.4 | 198.4 | 215.0 | 238.1 | 95.9  | 201.7 | 227.1 | 91.5  | 189.6 | 212.7 |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 92.4     | 198.4 | 209.4 | 227.1 | 250.2 | 88.4  | 186.3 | 198.4 | 215.0 | 237.0 | 83.1  | 200.6 | 226.0 | 78.9  | 189.6 | 212.2 |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 80.7     | 198.4 | 208.3 | 224.9 | 249.1 | 76.9  | 186.3 | 197.3 | 213.8 | 235.9 | 71.9  | 199.5 | 224.9 | 67.9  | 188.5 | 211.6 |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 70.5     | 197.3 | 207.2 | 224.9 | 248.0 | 66.8  | 185.2 | 196.2 | 212.7 | 234.8 | 61.7  | 199.5 | 223.8 | 57.8  | 187.4 | 210.0 |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 53.5     | 195.1 | 204.3 | 221.2 | 245.8 | 50.0  | 183.7 | 194.7 | 211.3 | 232.6 | 45.0  | 198.8 | 221.6 | 41.3  | 186.7 | 207.8 |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 38.5     | 192.2 | 200.3 | 217.2 | 242.5 | 35.2  | 181.9 | 192.2 | 209.1 | 229.3 | 30.3  | 196.9 | 219.4 | 26.7  | 185.2 | 205.6 |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 25.6     | 188.5 | 195.1 | 212.7 | 238.1 | 22.3  | 179.7 | 188.5 | 206.1 | 224.9 | 17.6  | 194.0 | 216.4 | 14.1  | 183.0 | 202.5 |
| 141.1                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 23.0     | 187.4 | 194.0 | 211.1 | 237.0 | 19.7  | 178.9 | 187.4 | 205.0 | 223.8 | 15.0  | 192.9 | 215.5 | 11.2  | 181.9 | 201.7 |
| 147.6                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 18.0     | 185.2 | 191.8 | 207.8 | 234.8 | 14.5  | 177.2 | 184.9 | 202.5 | 221.6 | 9.7   | 190.7 | 213.7 | -     | 180.1 | 200.3 |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15.4     | 184.1 | 189.6 | 206.1 | 233.7 | 11.9  | 176.4 | 183.5 | 201.2 | 220.5 | -     | 189.6 | 212.7 | -     | 179.2 | 199.5 |
| 154.2                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 12.9     | 183.0 | 187.9 | 204.5 | 231.9 | 9.3   | 175.8 | 182.2 | 199.8 | 219.4 | -     | 188.5 | 211.6 | -     | 178.4 | 198.4 |
| 157.5                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10.4     | 181.9 | 186.3 | 202.8 | 230.2 | -     | 175.3 | 180.8 | 198.4 | 218.3 | -     | 187.4 | 210.5 | -     | 177.5 | 197.3 |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 179.3 | 183.4 | 198.8 | 226.6 | -     | 173.1 | 178.2 | 195.1 | 216.1 | -     | 184.5 | 208.0 | -     | 175.3 | 194.6 |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 174.2 | 177.5 | 192.9 | 219.7 | -     | 168.7 | 173.1 | 189.6 | 209.8 | -     | 179.7 | 202.1 | -     | 170.9 | 188.9 |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 169.8 | 172.3 | 184.8 | 213.8 | -     | 165.7 | 168.7 | 184.5 | 203.9 | -     | 174.9 | 196.2 | -     | 166.4 | 183.0 |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 164.2 | 166.1 | 177.1 | 199.2 | -     | 162.4 | 163.1 | 179.7 | 191.4 | -     | 170.9 | 185.9 | -     | 162.4 | 176.4 |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 159.8 | 160.9 | 170.9 | 184.1 | -     | 158.7 | 158.7 | 175.3 | 177.5 | -     | 166.4 | 173.8 | -     | 158.7 | 166.4 |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 153.6 | 154.0 | 164.7 | 168.7 | -     | 155.4 | 153.2 | 163.1 | 163.1 | -     | 160.2 | 159.8 | -     | 152.3 | 153.2 |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 146.6 | 146.2 | 154.3 | 155.4 | -     | 148.8 | 145.9 | 149.9 | 149.9 | -     | 148.1 | 146.6 | -     | 142.9 | 140.7 |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 137.8 | 136.7 | 141.1 | 142.2 | -     | 137.8 | 137.8 | 136.7 | 137.1 | -     | 135.6 | 134.1 | -     | 131.2 | 128.6 |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 127.5 | 124.9 | 124.2 | 129.0 | -     | 126.8 | 126.0 | 124.9 | 124.6 | -     | 124.6 | 122.4 | -     | 120.2 | 116.8 |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 117.1 | 113.7 | 108.5 | 117.2 | -     | 116.1 | 114.5 | 113.9 | 112.4 | -     | 113.9 | 111.0 | -     | 108.9 | 105.9 |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 106.5 | 103.0 | 94.1  | 106.3 | -     | 105.6 | 103.0 | 103.4 | 102.4 | -     | 103.4 | 100.7 | -     | 99.2  | 95.8  |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 96.1  | 91.5  | 80.8  | 96.3  | -     | 96.2  | 91.2  | 90.8  | 92.2  | -     | 94.0  | 90.4  | -     | 89.7  | 85.8  |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 85.5  | 80.0  | 68.1  | 86.9  | -     | 87.2  | 79.4  | 78.0  | 82.6  | -     | 85.1  | 80.9  | -     | 80.6  | 76.5  |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 75.0  | 68.6  | 56.2  | 78.0  | -     | 78.7  | 67.5  | 65.5  | 73.9  | -     | 75.8  | 71.4  | -     | 72.5  | 68.0  |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 63.3  | 58.1  | 45.7  | 70.1  | -     | 70.9  | 56.7  | 54.5  | 65.7  | -     | 65.6  | 61.3  | -     | 64.9  | 59.7  |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 52.6  | 48.2  | 36.1  | 62.8  | -     | 61.5  | 46.6  | 44.0  | 58.5  | -     | 55.7  | 52.7  | -     | 57.1  | 50.6  |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 42.3  | 38.8  | 27.1  | 55.1  | -     | 50.5  | 37.0  | 34.4  | 51.6  | -     | 46.5  | 44.5  | -     | 48.1  | 42.1  |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 33.1  | 30.2  | 19.5  | 47.2  | -     | 40.4  | 28.5  | 26.0  | 45.0  | -     | 38.0  | 36.6  | -     | 39.7  | 34.2  |
| 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 25.0  | 22.6  | 12.8  | 40.0  | -     | 31.2  | 20.5  | 18.4  | 38.6  | -     | 29.9  | 29.5  | -     | 31.5  | 27.1  |
| 406.8                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 21.1  | 18.9  | 9.7   | 36.4  | -     | 27.0  | 16.8  | 15.0  | 35.3  | -     | 26.1  | 26.0  | -     | 27.7  | 23.6  |
| 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 17.2  | 15.2  | -     | 33.1  | -     | 22.7  | 13.0  | 12.3  | 32.0  | -     | 22.5  | 22.9  | -     | 23.8  | 20.4  |
| 419.9                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 13.8  | 12.0  | -     | 30.1  | -     | 18.9  | 9.7   | 9.5   | 28.7  | -     | 19.1  | 19.8  | -     | 20.4  | 17.3  |
| 426.5                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 10.4  | 8.8   | -     | 27.1  | -     | 15.2  | -     | -     | 25.4  | -     | 15.7  | 16.8  | -     | 16.9  | 14.1  |
| 436.4                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -     | -     | -     | 23.0  | -     | 10.1  | -     | -     | 21.1  | -     | 10.9  | 12.6  | -     | 11.7  | 9.7   |
| 439.6                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -     | -     | -     | 21.7  | -     | -     | -     | -     | 19.6  | -     | 9.5   | 11.1  | -     | 10.4  | -     |
| 442.9                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -     | -     | -     | 20.3  | -     | -     | -     | -     | 18.3  | -     | -     | 9.7   | -     | -     | -     |
| 452.8                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -     | -     | -     | 16.5  | -     | -     | -     | -     | 14.6  | -     | -     | -     | -     | -     | -     |
| 465.9                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -     | -     | -     | 12.1  | -     | -     | -     | -     | 9.7   | -     | -     | -     | -     | -     | -     |

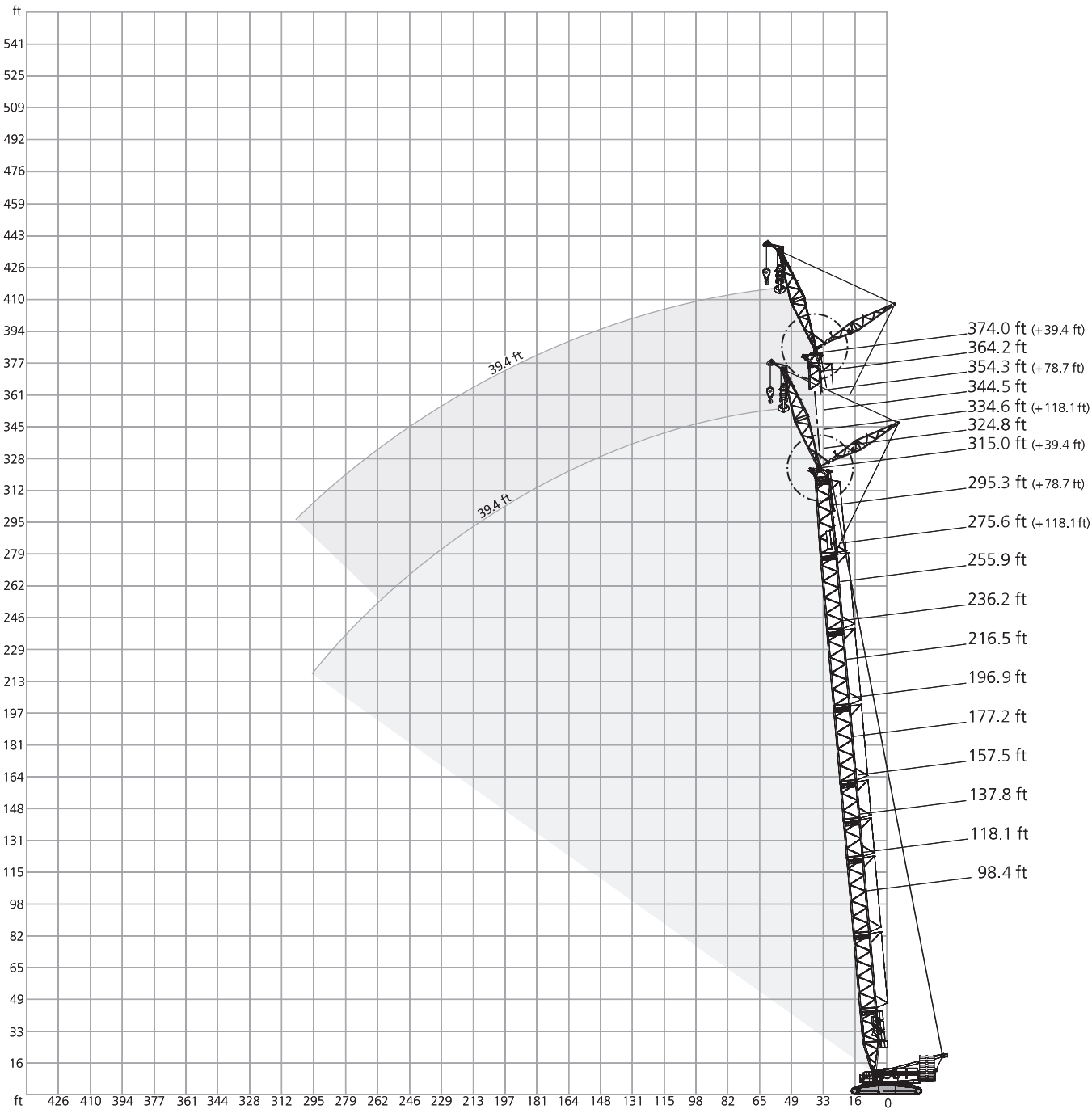
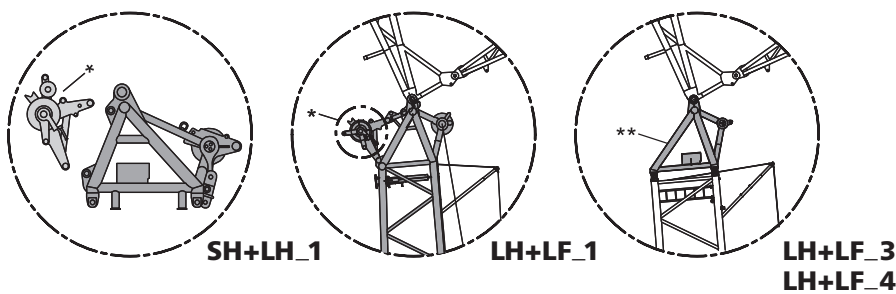
|             |      |            |            |            |            |            |            |            |
|-------------|------|------------|------------|------------|------------|------------|------------|------------|
| <div></div> | 0 lb | 143,300 lb | 275,600 lb | 363,800 lb | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb |
|-------------|------|------------|------------|------------|------------|------------|------------|------------|

LSL\_9 – LSL\_13:  36.1 ft – 68.9 ft

LSL\_15:  42.7 ft – 68.9 ft

LSL\_15:  496,100 lb +  110,200 lb





\* Attachable      \*\* Option

|  +  39.4-118.1 ft |       |          |             |  27.6 ft |       |             |       |  32.2 ft/s |             |          |       | 360°        |       |       | ASME B30.5  |       |      |      |       |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|-------------|-------------------------------------------------------------------------------------------|-------|-------------|-------|---------------------------------------------------------------------------------------------|-------------|----------|-------|-------------|-------|-------|-------------|-------|------|------|-------|----|
| 98.4 ft                                                                                                                                                                             |       |          |             |                                                                                           |       |             |       |                                                                                             |             | 118.1 ft |       |             |       |       |             |       |      |      |       |    |
| SH+LF_1                                                                                                                                                                             |       |          |             |                                                                                           |       |             |       |                                                                                             |             |          |       |             |       |       |             |       |      |      |       |    |
| 39.4 ft                                                                                                                                                                             |       |          | 78.7 ft     |                                                                                           |       | 118.1 ft    |       |                                                                                             | 39.4 ft     |          |       | 78.7 ft     |       |       | 118.1 ft    |       |      |      |       |    |
| 15° 20° 30°                                                                                                                                                                         |       |          | 15° 20° 30° |                                                                                           |       | 15° 20° 30° |       |                                                                                             | 15° 20° 30° |          |       | 15° 20° 30° |       |       | 15° 20° 30° |       |      |      |       |    |
| ft                                                                                                                                                                                  |       | 1,000 lb |             |                                                                                           |       |             |       |                                                                                             |             |          |       |             |       |       |             |       |      |      |       | ft |
| 29.5                                                                                                                                                                                | 377.0 | -        | -           | -                                                                                         | -     | -           | -     | -                                                                                           | -           | -        | -     | -           | -     | -     | -           | -     | -    | -    | 29.5  |    |
| 32.8                                                                                                                                                                                | 352.7 | -        | -           | -                                                                                         | -     | -           | -     | -                                                                                           | -           | 366.0    | -     | -           | -     | -     | -           | -     | -    | -    | 32.8  |    |
| 36.1                                                                                                                                                                                | 331.8 | 262.4    | -           | -                                                                                         | -     | -           | -     | -                                                                                           | -           | 346.1    | 269.0 | -           | -     | -     | -           | -     | -    | -    | 36.1  |    |
| 39.4                                                                                                                                                                                | 310.9 | 249.1    | 169.8       | -                                                                                         | -     | -           | -     | -                                                                                           | -           | 326.3    | 257.9 | -           | -     | -     | -           | -     | -    | -    | 39.4  |    |
| 42.7                                                                                                                                                                                | 294.3 | 238.1    | 163.7       | -                                                                                         | -     | -           | -     | -                                                                                           | -           | 310.9    | 246.9 | 166.4       | -     | -     | -           | -     | -    | -    | 42.7  |    |
| 45.9                                                                                                                                                                                | 277.8 | 227.1    | 157.6       | 173.1                                                                                     | -     | -           | -     | -                                                                                           | -           | 295.4    | 235.9 | 160.9       | 178.6 | -     | -           | -     | -    | -    | 45.9  |    |
| 52.5                                                                                                                                                                                | 251.3 | 209.4    | 147.7       | 156.5                                                                                     | 126.8 | -           | -     | -                                                                                           | -           | 269.0    | 219.4 | 152.1       | 162.0 | 130.1 | -           | -     | -    | -    | 52.5  |    |
| 59.1                                                                                                                                                                                | 231.5 | 192.9    | 138.9       | 142.2                                                                                     | 116.8 | -           | 111.3 | -                                                                                           | -           | 246.9    | 203.9 | 144.4       | 148.8 | 120.2 | -           | 113.5 | -    | -    | 59.1  |    |
| 62.3                                                                                                                                                                                | 222.7 | 186.8    | 135.6       | 136.1                                                                                     | 112.9 | 79.6        | 106.8 | -                                                                                           | -           | 238.1    | 197.3 | 140.5       | 142.7 | 116.3 | -           | 109.0 | -    | -    | 62.3  |    |
| 65.6                                                                                                                                                                                | 213.8 | 180.8    | 132.3       | 130.1                                                                                     | 108.9 | 77.2        | 102.3 | -                                                                                           | -           | 229.3    | 190.7 | 136.7       | 136.7 | 112.4 | 78.3        | 104.5 | -    | -    | 65.6  |    |
| 68.9                                                                                                                                                                                | 206.1 | 174.7    | 129.0       | 125.1                                                                                     | 105.2 | 75.0        | 98.4  | 81.4                                                                                        | -           | 221.6    | 185.2 | 133.9       | 131.7 | 108.9 | 76.2        | 100.8 | 82.9 | -    | 68.9  |    |
| 72.2                                                                                                                                                                                | 198.4 | 168.7    | 125.7       | 120.2                                                                                     | 101.4 | 72.8        | 94.6  | 78.5                                                                                        | -           | 213.8    | 179.7 | 131.2       | 126.8 | 105.4 | 74.1        | 97.0  | 80.0 | -    | 72.2  |    |
| 78.7                                                                                                                                                                                | 185.2 | 158.7    | 120.2       | 111.3                                                                                     | 94.8  | 68.8        | 87.5  | 73.0                                                                                        | -           | 200.6    | 169.8 | 125.7       | 117.9 | 99.0  | 70.3        | 90.4  | 75.0 | -    | 78.7  |    |
| 85.3                                                                                                                                                                                | 173.1 | 151.0    | 114.6       | 104.7                                                                                     | 89.1  | 65.3        | 81.1  | 68.3                                                                                        | 48.5        | 188.5    | 160.9 | 120.2       | 110.2 | 93.5  | 67.0        | 84.7  | 70.3 | -    | 85.3  |    |
| 88.6                                                                                                                                                                                | 168.7 | 147.2    | 112.4       | 101.4                                                                                     | 86.5  | 63.7        | 78.5  | 66.1                                                                                        | 47.2        | 183.0    | 157.1 | 117.9       | 107.4 | 90.9  | 65.6        | 81.9  | 68.2 | 47.6 | 88.6  |    |
| 91.9                                                                                                                                                                                | 164.2 | 143.3    | 110.2       | 98.1                                                                                      | 84.0  | 62.2        | 75.8  | 63.9                                                                                        | 45.9        | 177.5    | 153.2 | 115.7       | 104.5 | 88.4  | 64.2        | 79.1  | 66.1 | 46.5 | 91.9  |    |
| 98.4                                                                                                                                                                                | 155.4 | 136.7    | 107.1       | 92.4                                                                                      | 79.6  | 59.3        | 71.0  | 60.2                                                                                        | 43.4        | 168.7    | 146.6 | 111.3       | 98.5  | 83.8  | 61.5        | 74.3  | 62.6 | 44.1 | 98.4  |    |
| 111.5                                                                                                                                                                               | 141.1 | 125.7    | 101.2       | 82.7                                                                                      | 72.1  | 54.7        | 62.8  | 53.8                                                                                        | 39.2        | 145.5    | 134.5 | 105.8       | 88.6  | 76.3  | 56.7        | 66.1  | 56.2 | 40.3 | 111.5 |    |
| 124.7                                                                                                                                                                               | 126.8 | 117.9    | -           | 75.0                                                                                      | 65.9  | 50.7        | 56.4  | 48.7                                                                                        | 35.7        | 124.6    | 124.6 | 100.8       | 80.5  | 69.9  | 52.9        | 59.7  | 50.9 | 37.0 | 124.7 |    |
| 128.0                                                                                                                                                                               | 122.4 | -        | -           | 73.4                                                                                      | 64.7  | 49.9        | 55.1  | 47.6                                                                                        | 35.1        | 120.4    | 120.5 | 99.9        | 78.8  | 68.6  | 52.1        | 58.4  | 49.9 | 36.3 | 128.0 |    |
| 131.2                                                                                                                                                                               | 117.9 | -        | -           | 71.8                                                                                      | 63.4  | 49.2        | 53.8  | 46.5                                                                                        | 34.4        | 116.2    | 116.4 | -           | 77.2  | 67.4  | 51.4        | 57.0  | 48.8 | 35.6 | 131.2 |    |
| 137.8                                                                                                                                                                               | -     | -        | -           | 68.6                                                                                      | 60.8  | 47.6        | 51.1  | 44.3                                                                                        | 33.1        | 107.8    | 108.2 | -           | 73.9  | 64.8  | 49.8        | 54.2  | 46.7 | 34.2 | 137.8 |    |
| 141.1                                                                                                                                                                               | -     | -        | -           | 67.3                                                                                      | 59.9  | 47.1        | 50.0  | 43.4                                                                                        | 32.5        | 104.4    | 104.5 | -           | 72.5  | 63.7  | 49.2        | 53.1  | 45.8 | 33.6 | 141.1 |    |
| 147.6                                                                                                                                                                               | -     | -        | -           | 64.8                                                                                      | 57.9  | 46.0        | 47.7  | 41.7                                                                                        | 31.3        | 97.4     | -     | -           | 69.7  | 61.5  | 47.8        | 50.8  | 43.9 | 32.4 | 147.6 |    |
| 150.9                                                                                                                                                                               | -     | -        | -           | 63.5                                                                                      | 56.9  | 45.4        | 46.5  | 40.8                                                                                        | 30.6        | -        | -     | -           | 68.3  | 60.4  | 47.2        | 49.6  | 43.0 | 31.7 | 150.9 |    |
| 164.0                                                                                                                                                                               | -     | -        | -           | 59.5                                                                                      | 53.8  | -           | 42.8  | 37.7                                                                                        | 28.7        | -        | -     | -           | 63.9  | 56.9  | 45.2        | 45.9  | 39.9 | 29.8 | 164.0 |    |
| 167.3                                                                                                                                                                               | -     | -        | -           | 58.6                                                                                      | -     | -           | 42.0  | 37.0                                                                                        | 28.2        | -        | -     | -           | 63.0  | 56.2  | -           | 45.0  | 39.2 | 29.3 | 167.3 |    |
| 177.2                                                                                                                                                                               | -     | -        | -           | -                                                                                         | -     | -           | 39.7  | 35.1                                                                                        | 26.9        | -        | -     | -           | 60.2  | 54.2  | -           | 42.5  | 37.3 | 28.0 | 177.2 |    |
| 183.7                                                                                                                                                                               | -     | -        | -           | -                                                                                         | -     | -           | 38.4  | 34.1                                                                                        | 26.3        | -        | -     | -           | 58.6  | -     | -           | 41.1  | 36.0 | 27.3 | 183.7 |    |
| 190.3                                                                                                                                                                               | -     | -        | -           | -                                                                                         | -     | -           | 37.0  | 33.1                                                                                        | 25.8        | -        | -     | -           | -     | -     | -           | 39.7  | 34.8 | 26.7 | 190.3 |    |
| 200.1                                                                                                                                                                               | -     | -        | -           | -                                                                                         | -     | -           | 35.5  | 31.7                                                                                        | -           | -        | -     | -           | -     | -     | -           | 37.9  | 33.5 | 25.8 | 200.1 |    |
| 203.4                                                                                                                                                                               | -     | -        | -           | -                                                                                         | -     | -           | 35.1  | -                                                                                           | -           | -        | -     | -           | -     | -     | -           | 37.3  | 33.1 | 25.6 | 203.4 |    |
| 206.7                                                                                                                                                                               | -     | -        | -           | -                                                                                         | -     | -           | 34.6  | -                                                                                           | -           | -        | -     | -           | -     | -     | -           | 36.7  | 32.7 | -    | 206.7 |    |
| 216.5                                                                                                                                                                               | -     | -        | -           | -                                                                                         | -     | -           | -     | -                                                                                           | -           | -        | -     | -           | -     | -     | -           | 35.3  | 31.5 | -    | 216.5 |    |
| 223.1                                                                                                                                                                               | -     | -        | -           | -                                                                                         | -     | -           | -     | -                                                                                           | -           | -        | -     | -           | -     | -     | -           | 34.4  | -    | -    | 223.1 |    |

99,200 lb187,400 lb275,600 lb363,800 lb408,000 lb452,000 lb

0 lb66,100 lb110,200 lb



|  +  39.4-118.1 ft |       |  27.6 ft |                                                                                               |  32.2 ft/s |       | 360°                                                                                          |       | ASME B30.5 |                                                                                               |                                                                                              |       |                                                                                                 |       |       |                                                                                                 |      |       |                                                                                     |       |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------|-------|------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------|-------|-------|-------------------------------------------------------------------------------------------------|------|-------|-------------------------------------------------------------------------------------|-------|----|
|  157.5 ft                                                                                          |       |                                                                                           |                                                                                               |                                                                                             |       |                                                                                               |       |            |                                                                                               |  177.2 ft |       |                                                                                                 |       |       |                                                                                                 |      |       |                                                                                     |       |    |
| SH+LF_1                                                                                                                                                                             |       |                                                                                           |                                                                                               |                                                                                             |       |                                                                                               |       |            |                                                                                               |                                                                                              |       |                                                                                                 |       |       |                                                                                                 |      |       |                                                                                     |       |    |
|  39.4 ft                                                                                           |       |                                                                                           |  78.7 ft     |                                                                                             |       |  118.1 ft    |       |            |  39.4 ft     |                                                                                              |       |  78.7 ft     |       |       |  118.1 ft    |      |       |  |       |    |
|  15° 20° 30°                                                                                       |       |                                                                                           |  15° 20° 30° |                                                                                             |       |  15° 20° 30° |       |            |  15° 20° 30° |                                                                                              |       |  15° 20° 30° |       |       |  15° 20° 30° |      |       |                                                                                     |       |    |
| ft                                                                                                                                                                                  |       | 1,000 lb                                                                                  |                                                                                               |                                                                                             |       |                                                                                               |       |            |                                                                                               |                                                                                              |       |                                                                                                 |       |       |                                                                                                 |      |       |                                                                                     |       | ft |
| 36.1                                                                                                                                                                                | 368.2 | -                                                                                         | -                                                                                             | -                                                                                           | -     | -                                                                                             | -     | -          | -                                                                                             | -                                                                                            | -     | -                                                                                               | -     | -     | -                                                                                               | -    | -     | -                                                                                   | 36.1  |    |
| 39.4                                                                                                                                                                                | 350.5 | 269.0                                                                                     | -                                                                                             | -                                                                                           | -     | -                                                                                             | -     | -          | -                                                                                             | -                                                                                            | 359.4 | -                                                                                               | -     | -     | -                                                                                               | -    | -     | -                                                                                   | 39.4  |    |
| 42.7                                                                                                                                                                                | 336.2 | 260.1                                                                                     | -                                                                                             | -                                                                                           | -     | -                                                                                             | -     | -          | -                                                                                             | -                                                                                            | 345.0 | 264.6                                                                                           | -     | -     | -                                                                                               | -    | -     | -                                                                                   | 42.7  |    |
| 45.9                                                                                                                                                                                | 321.9 | 251.3                                                                                     | 166.4                                                                                         | -                                                                                           | -     | -                                                                                             | -     | -          | -                                                                                             | -                                                                                            | 330.7 | 257.9                                                                                           | 168.7 | -     | -                                                                                               | -    | -     | -                                                                                   | 45.9  |    |
| 49.2                                                                                                                                                                                | 308.6 | 242.5                                                                                     | 162.6                                                                                         | 178.6                                                                                       | -     | -                                                                                             | -     | -          | -                                                                                             | -                                                                                            | 318.6 | 249.1                                                                                           | 164.8 | -     | -                                                                                               | -    | -     | -                                                                                   | 49.2  |    |
| 52.5                                                                                                                                                                                | 295.4 | 233.7                                                                                     | 158.7                                                                                         | 172.0                                                                                       | -     | -                                                                                             | -     | -          | -                                                                                             | -                                                                                            | 306.4 | 240.3                                                                                           | 160.9 | 175.3 | -                                                                                               | -    | -     | -                                                                                   | 52.5  |    |
| 55.8                                                                                                                                                                                | 284.4 | 227.1                                                                                     | 154.9                                                                                         | 165.3                                                                                       | 130.1 | -                                                                                             | -     | -          | -                                                                                             | -                                                                                            | 296.5 | 233.7                                                                                           | 157.6 | 169.2 | -                                                                                               | -    | -     | -                                                                                   | 55.8  |    |
| 59.1                                                                                                                                                                                | 273.4 | 220.5                                                                                     | 151.0                                                                                         | 158.7                                                                                       | 125.7 | -                                                                                             | -     | -          | -                                                                                             | -                                                                                            | 286.6 | 227.1                                                                                           | 154.3 | 163.1 | 127.9                                                                                           | -    | -     | -                                                                                   | 59.1  |    |
| 62.3                                                                                                                                                                                | 264.6 | 214.4                                                                                     | 147.7                                                                                         | 153.2                                                                                       | 121.8 | -                                                                                             | 111.3 | -          | -                                                                                             | -                                                                                            | 276.7 | 221.6                                                                                           | 151.0 | 157.6 | 124.0                                                                                           | -    | -     | -                                                                                   | 62.3  |    |
| 65.6                                                                                                                                                                                | 255.7 | 208.3                                                                                     | 144.4                                                                                         | 147.7                                                                                       | 117.9 | -                                                                                             | 108.0 | -          | -                                                                                             | -                                                                                            | 266.8 | 216.1                                                                                           | 147.7 | 152.1 | 120.2                                                                                           | -    | 109.3 | -                                                                                   | 65.6  |    |
| 68.9                                                                                                                                                                                | 248.0 | 202.8                                                                                     | 141.6                                                                                         | 142.7                                                                                       | 114.6 | 78.0                                                                                          | 104.5 | -          | -                                                                                             | -                                                                                            | 259.0 | 210.5                                                                                           | 145.0 | 147.2 | 116.8                                                                                           | 78.7 | 105.9 | -                                                                                   | 68.9  |    |
| 72.2                                                                                                                                                                                | 240.3 | 197.3                                                                                     | 138.9                                                                                         | 137.8                                                                                       | 111.3 | 76.3                                                                                          | 101.0 | 82.0       | -                                                                                             | -                                                                                            | 251.3 | 205.0                                                                                           | 142.2 | 142.2 | 113.5                                                                                           | 76.9 | 102.5 | -                                                                                   | 72.2  |    |
| 75.5                                                                                                                                                                                | 232.6 | 192.4                                                                                     | 136.1                                                                                         | 133.4                                                                                       | 108.6 | 74.6                                                                                          | 97.9  | 79.8       | -                                                                                             | -                                                                                            | 240.3 | 200.1                                                                                           | 139.4 | 137.8 | 111.1                                                                                           | 75.4 | 99.5  | 80.5                                                                                | 75.5  |    |
| 78.7                                                                                                                                                                                | 224.9 | 187.4                                                                                     | 133.4                                                                                         | 129.0                                                                                       | 105.8 | 73.0                                                                                          | 94.8  | 77.6       | -                                                                                             | -                                                                                            | 229.3 | 195.1                                                                                           | 136.7 | 133.4 | 108.7                                                                                           | 73.9 | 96.6  | 78.3                                                                                | 78.7  |    |
| 85.3                                                                                                                                                                                | 207.2 | 178.6                                                                                     | 129.0                                                                                         | 121.3                                                                                       | 100.3 | 69.9                                                                                          | 89.5  | 73.4       | -                                                                                             | -                                                                                            | 205.0 | 186.3                                                                                           | 132.3 | 126.8 | 103.4                                                                                           | 71.0 | 91.3  | 74.5                                                                                | 85.3  |    |
| 91.9                                                                                                                                                                                | 186.3 | 170.9                                                                                     | 124.6                                                                                         | 114.6                                                                                       | 95.5  | 67.2                                                                                          | 84.4  | 69.7       | 47.4                                                                                          | 184.1                                                                                        | 178.6 | 127.9                                                                                           | 120.2 | 98.5  | 68.3                                                                                            | 86.4 | 71.0  | 47.4                                                                                | 91.9  |    |
| 98.4                                                                                                                                                                                | 168.7 | 163.1                                                                                     | 120.2                                                                                         | 109.3                                                                                       | 91.1  | 64.6                                                                                          | 79.8  | 66.4       | 45.4                                                                                          | 165.3                                                                                        | 166.4 | 124.6                                                                                           | 113.5 | 94.1  | 65.9                                                                                            | 82.0 | 67.7  | 45.6                                                                                | 98.4  |    |
| 111.5                                                                                                                                                                               | 140.0 | 141.1                                                                                     | 113.5                                                                                         | 99.0                                                                                        | 83.3  | 60.2                                                                                          | 71.7  | 60.2       | 41.9                                                                                          | 136.7                                                                                        | 137.8 | 116.8                                                                                           | 103.6 | 86.4  | 61.5                                                                                            | 74.1 | 61.9  | 42.3                                                                                | 111.5 |    |
| 124.7                                                                                                                                                                               | 117.9 | 119.0                                                                                     | 108.2                                                                                         | 90.4                                                                                        | 76.9  | 56.4                                                                                          | 64.8  | 55.1       | 38.8                                                                                          | 115.7                                                                                        | 115.7 | 111.3                                                                                           | 95.0  | 80.0  | 58.0                                                                                            | 67.2 | 56.9  | 39.5                                                                                | 124.7 |    |
| 137.8                                                                                                                                                                               | 101.6 | 102.3                                                                                     | 103.2                                                                                         | 83.3                                                                                        | 71.7  | 53.1                                                                                          | 59.5  | 50.7       | 36.2                                                                                          | 98.8                                                                                         | 99.4  | 100.8                                                                                           | 87.5  | 74.5  | 54.7                                                                                            | 61.7 | 52.5  | 36.8                                                                                | 137.8 |    |
| 150.9                                                                                                                                                                               | 88.0  | 88.4                                                                                      | 89.1                                                                                          | 77.4                                                                                        | 67.0  | 50.5                                                                                          | 55.3  | 47.0       | 33.7                                                                                          | 85.1                                                                                         | 85.5  | 86.6                                                                                            | 81.4  | 69.9  | 52.0                                                                                            | 57.3 | 48.7  | 34.6                                                                                | 150.9 |    |
| 154.2                                                                                                                                                                               | 84.9  | 85.3                                                                                      | 86.0                                                                                          | 76.1                                                                                        | 66.0  | 49.9                                                                                          | 54.3  | 46.2       | 33.2                                                                                          | 82.3                                                                                         | 82.7  | 83.7                                                                                            | 80.0  | 68.9  | 51.4                                                                                            | 56.4 | 48.0  | 34.1                                                                                | 154.2 |    |
| 164.0                                                                                                                                                                               | 76.7  | 77.2                                                                                      | -                                                                                             | 72.1                                                                                        | 63.1  | 48.3                                                                                          | 51.1  | 43.9       | 31.7                                                                                          | 73.9                                                                                         | 74.3  | 75.0                                                                                            | 76.1  | 65.9  | 49.6                                                                                            | 53.8 | 45.6  | 32.6                                                                                | 164.0 |    |
| 167.3                                                                                                                                                                               | 74.4  | 74.7                                                                                      | -                                                                                             | 71.0                                                                                        | 62.2  | 47.8                                                                                          | 50.3  | 43.2       | 31.3                                                                                          | 71.4                                                                                         | 71.8  | 72.3                                                                                            | 74.5  | 65.0  | 49.1                                                                                            | 52.9 | 44.9  | 32.2                                                                                | 167.3 |    |
| 173.9                                                                                                                                                                               | 69.8  | 69.9                                                                                      | -                                                                                             | 68.8                                                                                        | 60.4  | 46.8                                                                                          | 48.5  | 41.7       | 30.4                                                                                          | 66.4                                                                                         | 66.9  | -                                                                                               | 71.4  | 63.3  | 48.1                                                                                            | 51.0 | 43.5  | 31.3                                                                                | 173.9 |    |
| 177.2                                                                                                                                                                               | 67.5  | -                                                                                         | -                                                                                             | 67.9                                                                                        | 59.7  | 46.3                                                                                          | 47.6  | 41.0       | 30.0                                                                                          | 63.9                                                                                         | 64.4  | -                                                                                               | 69.9  | 62.4  | 47.6                                                                                            | 50.0 | 42.8  | 30.9                                                                                | 177.2 |    |
| 180.4                                                                                                                                                                               | 65.3  | -                                                                                         | -                                                                                             | 67.0                                                                                        | 59.0  | 45.9                                                                                          | 46.8  | 40.4       | 29.7                                                                                          | 61.8                                                                                         | 62.2  | -                                                                                               | 67.8  | 61.6  | 47.2                                                                                            | 49.3 | 42.1  | 30.5                                                                                | 180.4 |    |
| 190.3                                                                                                                                                                               | -     | -                                                                                         | -                                                                                             | 64.2                                                                                        | 56.9  | 44.8                                                                                          | 44.5  | 38.6       | 28.7                                                                                          | 55.6                                                                                         | 55.8  | -                                                                                               | 61.5  | 59.3  | 46.1                                                                                            | 47.0 | 40.1  | 29.3                                                                                | 190.3 |    |
| 193.6                                                                                                                                                                               | -     | -                                                                                         | -                                                                                             | 62.4                                                                                        | 56.3  | 44.5                                                                                          | 43.9  | 38.0       | 28.3                                                                                          | 53.7                                                                                         | -     | -                                                                                               | 59.6  | 58.1  | 45.7                                                                                            | 46.2 | 39.6  | 29.0                                                                                | 193.6 |    |
| 196.9                                                                                                                                                                               | -     | -                                                                                         | -                                                                                             | 60.6                                                                                        | 55.8  | -                                                                                             | 43.2  | 37.5       | 28.0                                                                                          | 51.8                                                                                         | -     | -                                                                                               | 57.8  | 57.0  | 45.4                                                                                            | 45.5 | 39.0  | 28.7                                                                                | 196.9 |    |
| 203.4                                                                                                                                                                               | -     | -                                                                                         | -                                                                                             | 57.1                                                                                        | 54.7  | -                                                                                             | 41.9  | 36.4       | 27.3                                                                                          | -                                                                                            | -     | -                                                                                               | 54.0  | 54.7  | 44.8                                                                                            | 44.1 | 37.9  | 28.0                                                                                | 203.4 |    |
| 206.7                                                                                                                                                                               | -     | -                                                                                         | -                                                                                             | 55.5                                                                                        | 54.1  | -                                                                                             | 41.3  | 35.9       | 27.1                                                                                          | -                                                                                            | -     | -                                                                                               | 52.2  | 52.9  | 44.3                                                                                            | 43.5 | 37.5  | 27.7                                                                                | 206.7 |    |
| 210.0                                                                                                                                                                               | -     | -                                                                                         | -                                                                                             | 53.9                                                                                        | 53.6  | -                                                                                             | 40.7  | 35.5       | 26.8                                                                                          | -                                                                                            | -     | -                                                                                               | 50.6  | 51.1  | -                                                                                               | 42.9 | 37.0  | 27.4                                                                                | 210.0 |    |
| 216.5                                                                                                                                                                               | -     | -                                                                                         | -                                                                                             | 50.7                                                                                        | -     | -                                                                                             | 39.5  | 34.6       | 26.2                                                                                          | -                                                                                            | -     | -                                                                                               | 47.4  | 48.1  | -                                                                                               | 41.7 | 36.2  | 26.9                                                                                | 216.5 |    |
| 219.8                                                                                                                                                                               | -     | -                                                                                         | -                                                                                             | 49.2                                                                                        | -     | -                                                                                             | 39.0  | 34.2       | 26.0                                                                                          | -                                                                                            | -     | -                                                                                               | 46.0  | 46.5  | -                                                                                               | 41.1 | 35.7  | 26.7                                                                                | 219.8 |    |
| 226.4                                                                                                                                                                               | -     | -                                                                                         | -                                                                                             | -                                                                                           | -     | -                                                                                             | 38.0  | 33.5       | 25.6                                                                                          | -                                                                                            | -     | -                                                                                               | 43.1  | 43.4  | -                                                                                               | 40.0 | 34.8  | 26.2                                                                                | 226.4 |    |
| 229.7                                                                                                                                                                               | -     | -                                                                                         | -                                                                                             | -                                                                                           | -     | -                                                                                             | 37.5  | 33.1       | 25.4                                                                                          | -                                                                                            | -     | -                                                                                               | 41.7  | -     | -                                                                                               | 39.5 | 34.4  | 26.0                                                                                | 229.7 |    |
| 236.2                                                                                                                                                                               | -     | -                                                                                         | -                                                                                             | -                                                                                           | -     | -                                                                                             | 36.6  | 32.4       | -                                                                                             | -                                                                                            | -     | -                                                                                               | 39.0  | -     | -                                                                                               | 38.5 | 33.7  | 25.6                                                                                | 236.2 |    |
| 242.8                                                                                                                                                                               | -     | -                                                                                         | -                                                                                             | -                                                                                           | -     | -                                                                                             | 35.7  | 31.7       | -                                                                                             | -                                                                                            | -     | -                                                                                               | -     | -     | -                                                                                               | 37.5 | 33.1  | 25.4                                                                                | 242.8 |    |
| 249.3                                                                                                                                                                               | -     | -                                                                                         | -                                                                                             | -                                                                                           | -     | -                                                                                             | 35.1  | 31.3       | -                                                                                             | -                                                                                            | -     | -                                                                                               | -     | -     | -                                                                                               | 36.5 | 32.4  | -                                                                                   | 249.3 |    |
| 255.9                                                                                                                                                                               | -     | -                                                                                         | -                                                                                             | -                                                                                           | -     | -                                                                                             | 34.4  | -          | -                                                                                             | -                                                                                            | -     | -                                                                                               | -     | -     | -                                                                                               | 35.5 | 31.7  | -                                                                                   | 255.9 |    |
| 265.7                                                                                                                                                                               | -     | -                                                                                         | -                                                                                             | -                                                                                           | -     | -                                                                                             | -     | -          | -                                                                                             | -                                                                                            | -     | -                                                                                               | -     | -     | -                                                                                               | 32.4 | 31.1  | -                                                                                   | 265.7 |    |
| 269.0                                                                                                                                                                               | -     | -                                                                                         | -                                                                                             | -                                                                                           | -     | -                                                                                             | -     | -          | -                                                                                             | -                                                                                            | -     | -                                                                                               | -     | -     | -                                                                                               | 31.3 | -     | -                                                                                   | 269.0 |    |
| 272.3                                                                                                                                                                               | -     | -                                                                                         | -                                                                                             | -                                                                                           | -     | -                                                                                             | -     | -          | -                                                                                             | -                                                                                            | -     | -                                                                                               | -     | -     | -                                                                                               | 30.2 | -     | -                                                                                   | 272.3 |    |

99,200 lb

187,400 lb

275,600 lb

363,800 lb

408,000 lb

452,000 lb

0 lb

66,100 lb

110,200 lb



|  +  39.4-118.1 ft |          |  27.6 ft |                                                                                           |  32.2 ft/s |       | 360°                                                                                       |       | ASME B30.5 |                                                                                           |                                                                                              |       |                                                                                             |       |       |                                                                                              |       |      |                                                                                     |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------|-------|------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------|-------|-------|----------------------------------------------------------------------------------------------|-------|------|-------------------------------------------------------------------------------------|-------|
|  196.9 ft                                                                                          |          |                                                                                           |                                                                                           |                                                                                             |       |                                                                                            |       |            |                                                                                           |  216.5 ft |       |                                                                                             |       |       |                                                                                              |       |      |                                                                                     |       |
| SH+LF.1                                                                                                                                                                             |          |                                                                                           |                                                                                           |                                                                                             |       |                                                                                            |       |            |                                                                                           |                                                                                              |       |                                                                                             |       |       |                                                                                              |       |      |                                                                                     |       |
|  39.4 ft                                                                                           |          |                                                                                           |  78.7 ft |                                                                                             |       |  118.1 ft |       |            |  39.4 ft |                                                                                              |       |  78.7 ft |       |       |  118.1 ft |       |      |  |       |
| 15°                                                                                                                                                                                 | 20°      | 30°                                                                                       | 15°                                                                                       | 20°                                                                                         | 30°   | 15°                                                                                        | 20°   | 30°        | 15°                                                                                       | 20°                                                                                          | 30°   | 15°                                                                                         | 20°   | 30°   | 15°                                                                                          | 20°   | 30°  |                                                                                     |       |
| ft                                                                                                                                                                                  | 1,000 lb |                                                                                           |                                                                                           |                                                                                             |       |                                                                                            |       |            |                                                                                           |                                                                                              |       |                                                                                             |       |       |                                                                                              |       |      |                                                                                     | ft    |
| 39.4                                                                                                                                                                                | 368.2    | -                                                                                         | -                                                                                         | -                                                                                           | -     | -                                                                                          | -     | -          | -                                                                                         | -                                                                                            | -     | -                                                                                           | -     | -     | -                                                                                            | -     | -    | -                                                                                   | 39.4  |
| 42.7                                                                                                                                                                                | 354.9    | 271.2                                                                                     | -                                                                                         | -                                                                                           | -     | -                                                                                          | -     | -          | -                                                                                         | 361.6                                                                                        | -     | -                                                                                           | -     | -     | -                                                                                            | -     | -    | -                                                                                   | 42.7  |
| 45.9                                                                                                                                                                                | 341.7    | 262.4                                                                                     | -                                                                                         | -                                                                                           | -     | -                                                                                          | -     | -          | -                                                                                         | 348.3                                                                                        | 266.8 | -                                                                                           | -     | -     | -                                                                                            | -     | -    | -                                                                                   | 45.9  |
| 49.2                                                                                                                                                                                | 329.6    | 254.6                                                                                     | 166.4                                                                                     | -                                                                                           | -     | -                                                                                          | -     | -          | -                                                                                         | 337.3                                                                                        | 259.0 | -                                                                                           | -     | -     | -                                                                                            | -     | -    | -                                                                                   | 49.2  |
| 52.5                                                                                                                                                                                | 317.5    | 246.9                                                                                     | 162.0                                                                                     | 178.6                                                                                       | -     | -                                                                                          | -     | -          | -                                                                                         | 326.3                                                                                        | 251.3 | 164.2                                                                                       | -     | -     | -                                                                                            | -     | -    | -                                                                                   | 52.5  |
| 55.8                                                                                                                                                                                | 306.4    | 240.3                                                                                     | 159.3                                                                                     | 172.5                                                                                       | -     | -                                                                                          | -     | -          | -                                                                                         | 314.2                                                                                        | 244.7 | 160.9                                                                                       | 175.3 | -     | -                                                                                            | -     | -    | -                                                                                   | 55.8  |
| 59.1                                                                                                                                                                                | 295.4    | 233.7                                                                                     | 156.5                                                                                     | 166.4                                                                                       | 130.1 | -                                                                                          | -     | -          | -                                                                                         | 302.0                                                                                        | 238.1 | 157.6                                                                                       | 169.8 | -     | -                                                                                            | -     | -    | -                                                                                   | 59.1  |
| 62.3                                                                                                                                                                                | 286.6    | 227.1                                                                                     | 153.2                                                                                     | 161.5                                                                                       | 126.2 | -                                                                                          | -     | -          | -                                                                                         | 285.5                                                                                        | 232.6 | 154.9                                                                                       | 164.8 | 127.9 | -                                                                                            | -     | -    | -                                                                                   | 62.3  |
| 65.6                                                                                                                                                                                | 277.8    | 220.5                                                                                     | 149.9                                                                                     | 156.5                                                                                       | 122.4 | -                                                                                          | 110.2 | -          | -                                                                                         | 269.0                                                                                        | 227.1 | 152.1                                                                                       | 159.8 | 124.6 | -                                                                                            | -     | -    | -                                                                                   | 65.6  |
| 68.9                                                                                                                                                                                | 264.6    | 216.1                                                                                     | 147.2                                                                                     | 151.6                                                                                       | 119.6 | -                                                                                          | 107.0 | -          | -                                                                                         | 255.7                                                                                        | 222.1 | 149.9                                                                                       | 154.9 | 121.3 | -                                                                                            | 107.8 | -    | -                                                                                   | 68.9  |
| 72.2                                                                                                                                                                                | 251.3    | 211.6                                                                                     | 144.4                                                                                     | 146.6                                                                                       | 116.8 | 77.6                                                                                       | 103.8 | -          | -                                                                                         | 242.5                                                                                        | 217.2 | 147.7                                                                                       | 149.9 | 117.9 | -                                                                                            | 104.9 | -    | -                                                                                   | 72.2  |
| 75.5                                                                                                                                                                                | 239.2    | 206.7                                                                                     | 142.2                                                                                     | 142.2                                                                                       | 113.5 | 76.1                                                                                       | 101.0 | 81.1       | -                                                                                         | 230.9                                                                                        | 212.2 | 145.0                                                                                       | 146.1 | 115.2 | 76.7                                                                                         | 102.1 | -    | -                                                                                   | 75.5  |
| 78.7                                                                                                                                                                                | 227.1    | 201.7                                                                                     | 140.0                                                                                     | 137.8                                                                                       | 110.2 | 74.5                                                                                       | 98.1  | 78.9       | -                                                                                         | 219.4                                                                                        | 207.2 | 142.2                                                                                       | 142.2 | 112.4 | 75.2                                                                                         | 99.2  | 79.4 | -                                                                                   | 78.7  |
| 85.3                                                                                                                                                                                | 201.7    | 192.9                                                                                     | 135.6                                                                                     | 131.2                                                                                       | 105.8 | 71.9                                                                                       | 92.8  | 75.2       | -                                                                                         | 199.5                                                                                        | 199.5 | 137.8                                                                                       | 134.5 | 108.2 | 72.8                                                                                         | 94.1  | 75.8 | -                                                                                   | 85.3  |
| 91.9                                                                                                                                                                                | 180.8    | 181.9                                                                                     | 131.2                                                                                     | 124.6                                                                                       | 101.2 | 69.4                                                                                       | 88.4  | 71.9       | -                                                                                         | 178.6                                                                                        | 180.8 | 133.4                                                                                       | 127.9 | 103.6 | 70.3                                                                                         | 89.7  | 72.5 | -                                                                                   | 91.9  |
| 95.1                                                                                                                                                                                | 172.0    | 173.1                                                                                     | 129.0                                                                                     | 121.3                                                                                       | 99.1  | 68.2                                                                                       | 86.2  | 70.3       | 46.7                                                                                      | 169.8                                                                                        | 171.4 | 131.7                                                                                       | 125.1 | 101.5 | 69.1                                                                                         | 87.6  | 71.1 | -                                                                                   | 95.1  |
| 98.4                                                                                                                                                                                | 163.1    | 164.2                                                                                     | 126.8                                                                                     | 117.9                                                                                       | 97.0  | 67.0                                                                                       | 84.0  | 68.8       | 45.9                                                                                      | 160.9                                                                                        | 162.0 | 130.1                                                                                       | 122.4 | 99.4  | 67.9                                                                                         | 85.5  | 69.7 | 46.1                                                                                | 98.4  |
| 111.5                                                                                                                                                                               | 134.5    | 135.6                                                                                     | 120.2                                                                                     | 108.0                                                                                       | 89.3  | 62.8                                                                                       | 76.3  | 63.1       | 42.8                                                                                      | 132.3                                                                                        | 133.4 | 123.5                                                                                       | 111.3 | 91.9  | 63.9                                                                                         | 78.0  | 64.2 | 43.0                                                                                | 111.5 |
| 124.7                                                                                                                                                                               | 112.4    | 113.5                                                                                     | 114.6                                                                                     | 99.2                                                                                        | 82.9  | 59.1                                                                                       | 69.4  | 58.2       | 39.9                                                                                      | 110.2                                                                                        | 111.3 | 113.5                                                                                       | 103.2 | 85.5  | 60.4                                                                                         | 71.4  | 59.3 | 40.3                                                                                | 124.7 |
| 137.8                                                                                                                                                                               | 95.5     | 96.3                                                                                      | 97.7                                                                                      | 91.7                                                                                        | 77.4  | 56.0                                                                                       | 63.9  | 54.0       | 37.5                                                                                      | 93.5                                                                                         | 94.4  | 95.9                                                                                        | 95.5  | 80.0  | 57.3                                                                                         | 65.9  | 55.1 | 37.9                                                                                | 137.8 |
| 150.9                                                                                                                                                                               | 81.6     | 82.2                                                                                      | 83.6                                                                                      | 85.3                                                                                        | 72.5  | 53.4                                                                                       | 59.3  | 50.3       | 35.3                                                                                      | 79.6                                                                                         | 80.5  | 81.8                                                                                        | 86.6  | 75.2  | 54.5                                                                                         | 61.1  | 51.4 | 35.7                                                                                | 150.9 |
| 164.0                                                                                                                                                                               | 69.9     | 70.5                                                                                      | 71.7                                                                                      | 76.7                                                                                        | 68.6  | 50.9                                                                                       | 55.6  | 47.2       | 33.5                                                                                      | 67.5                                                                                         | 68.3  | 69.4                                                                                        | 75.0  | 71.0  | 52.0                                                                                         | 57.1  | 48.5 | 34.0                                                                                | 164.0 |
| 177.2                                                                                                                                                                               | 59.7     | 60.2                                                                                      | 61.1                                                                                      | 66.8                                                                                        | 64.8  | 48.9                                                                                       | 52.2  | 44.3       | 31.7                                                                                      | 57.3                                                                                         | 58.0  | 59.1                                                                                        | 64.6  | 66.1  | 50.0                                                                                         | 54.0  | 45.9 | 32.4                                                                                | 177.2 |
| 180.4                                                                                                                                                                               | 57.6     | 58.0                                                                                      | 58.9                                                                                      | 64.6                                                                                        | 63.4  | 48.5                                                                                       | 51.4  | 43.7       | 31.3                                                                                      | 55.2                                                                                         | 55.8  | 56.8                                                                                        | 62.3  | 63.8  | 49.6                                                                                         | 53.2  | 45.2 | 32.0                                                                                | 180.4 |
| 190.3                                                                                                                                                                               | 51.1     | 51.6                                                                                      | -                                                                                         | 58.0                                                                                        | 59.1  | 47.2                                                                                       | 48.9  | 41.7       | 30.2                                                                                      | 48.7                                                                                         | 49.4  | 50.0                                                                                        | 55.8  | 56.9  | 48.3                                                                                         | 50.9  | 43.2 | 30.9                                                                                | 190.3 |
| 196.9                                                                                                                                                                               | 47.5     | 48.0                                                                                      | -                                                                                         | 54.1                                                                                        | 54.9  | 46.4                                                                                       | 47.5  | 40.6       | 29.5                                                                                      | 45.1                                                                                         | 45.6  | 46.1                                                                                        | 51.9  | 52.9  | 47.4                                                                                         | 49.6  | 42.1 | 30.2                                                                                | 196.9 |
| 203.4                                                                                                                                                                               | 43.9     | 44.3                                                                                      | -                                                                                         | 50.3                                                                                        | 51.1  | 45.6                                                                                       | 46.1  | 39.5       | 28.9                                                                                      | 41.4                                                                                         | 41.9  | -                                                                                           | 48.1  | 48.9  | 46.7                                                                                         | 48.3  | 41.0 | 29.5                                                                                | 203.4 |
| 213.3                                                                                                                                                                               | 39.2     | -                                                                                         | -                                                                                         | 45.3                                                                                        | 46.0  | 44.8                                                                                       | 44.2  | 38.1       | 28.1                                                                                      | 36.6                                                                                         | 37.0  | -                                                                                           | 42.9  | 43.8  | 44.4                                                                                         | 46.3  | 39.5 | 28.7                                                                                | 213.3 |
| 216.5                                                                                                                                                                               | -        | -                                                                                         | -                                                                                         | 43.7                                                                                        | 44.3  | 44.5                                                                                       | 43.7  | 37.5       | 27.8                                                                                      | 35.1                                                                                         | 35.5  | -                                                                                           | 41.2  | 42.1  | 43.7                                                                                         | 45.6  | 39.0 | 28.4                                                                                | 216.5 |
| 219.8                                                                                                                                                                               | -        | -                                                                                         | -                                                                                         | 42.2                                                                                        | 42.8  | 44.1                                                                                       | 43.1  | 37.0       | 27.4                                                                                      | 33.7                                                                                         | 34.0  | -                                                                                           | 39.8  | 40.6  | 42.1                                                                                         | 44.2  | 38.6 | 28.2                                                                                | 219.8 |
| 229.7                                                                                                                                                                               | -        | -                                                                                         | -                                                                                         | 37.7                                                                                        | 38.4  | -                                                                                          | 41.4  | 35.7       | 26.7                                                                                      | 29.5                                                                                         | -     | -                                                                                           | 35.5  | 36.2  | 37.5                                                                                         | 39.9  | 37.3 | 27.3                                                                                | 229.7 |
| 232.9                                                                                                                                                                               | -        | -                                                                                         | -                                                                                         | 36.4                                                                                        | 37.0  | -                                                                                          | 40.3  | 35.4       | 26.5                                                                                      | 28.4                                                                                         | -     | -                                                                                           | 34.2  | 34.8  | 36.2                                                                                         | 38.6  | 36.8 | 27.1                                                                                | 232.9 |
| 242.8                                                                                                                                                                               | -        | -                                                                                         | -                                                                                         | 32.6                                                                                        | 33.1  | -                                                                                          | 36.8  | 34.4       | 25.8                                                                                      | -                                                                                            | -     | -                                                                                           | 30.2  | 30.9  | -                                                                                            | 34.6  | 35.5 | 26.5                                                                                | 242.8 |
| 252.6                                                                                                                                                                               | -        | -                                                                                         | -                                                                                         | 29.1                                                                                        | -     | -                                                                                          | 33.3  | 33.2       | 25.3                                                                                      | -                                                                                            | -     | -                                                                                           | 26.9  | 27.4  | -                                                                                            | 31.1  | 32.1 | 25.8                                                                                | 252.6 |
| 255.9                                                                                                                                                                               | -        | -                                                                                         | -                                                                                         | -                                                                                           | -     | -                                                                                          | 32.2  | 32.8       | 25.1                                                                                      | -                                                                                            | -     | -                                                                                           | 25.8  | 26.2  | -                                                                                            | 30.0  | 30.9 | 25.6                                                                                | 255.9 |
| 259.2                                                                                                                                                                               | -        | -                                                                                         | -                                                                                         | -                                                                                           | -     | -                                                                                          | 31.1  | 31.7       | 24.9                                                                                      | -                                                                                            | -     | -                                                                                           | 24.8  | 25.1  | -                                                                                            | 28.9  | 29.8 | 25.4                                                                                | 259.2 |
| 269.0                                                                                                                                                                               | -        | -                                                                                         | -                                                                                         | -                                                                                           | -     | -                                                                                          | 27.8  | 28.4       | -                                                                                         | -                                                                                            | -     | -                                                                                           | 21.6  | -     | -                                                                                            | 25.6  | 26.5 | 24.9                                                                                | 269.0 |
| 272.3                                                                                                                                                                               | -        | -                                                                                         | -                                                                                         | -                                                                                           | -     | -                                                                                          | 26.8  | 27.4       | -                                                                                         | -                                                                                            | -     | -                                                                                           | -     | -     | -                                                                                            | 24.6  | 25.5 | 24.9                                                                                | 272.3 |
| 282.2                                                                                                                                                                               | -        | -                                                                                         | -                                                                                         | -                                                                                           | -     | -                                                                                          | 24.0  | 24.5       | -                                                                                         | -                                                                                            | -     | -                                                                                           | -     | -     | -                                                                                            | 21.8  | 22.5 | -                                                                                   | 282.2 |
| 292.0                                                                                                                                                                               | -        | -                                                                                         | -                                                                                         | -                                                                                           | -     | -                                                                                          | 21.4  | -          | -                                                                                         | -                                                                                            | -     | -                                                                                           | -     | -     | -                                                                                            | 19.2  | 19.7 | -                                                                                   | 292.0 |
| 295.3                                                                                                                                                                               | -        | -                                                                                         | -                                                                                         | -                                                                                           | -     | -                                                                                          | -     | -          | -                                                                                         | -                                                                                            | -     | -                                                                                           | -     | -     | -                                                                                            | 18.3  | 18.7 | -                                                                                   | 295.3 |
| 298.6                                                                                                                                                                               | -        | -                                                                                         | -                                                                                         | -                                                                                           | -     | -                                                                                          | -     | -          | -                                                                                         | -                                                                                            | -     | -                                                                                           | -     | -     | -                                                                                            | 17.5  | 18.1 | -                                                                                   | 298.6 |
| 308.4                                                                                                                                                                               | -        | -                                                                                         | -                                                                                         | -                                                                                           | -     | -                                                                                          | -     | -          | -                                                                                         | -                                                                                            | -     | -                                                                                           | -     | -     | -                                                                                            | 15.0  | -    | -                                                                                   | 308.4 |

99,200 lb

187,400 lb

275,600 lb

363,800 lb

408,000 lb

452,000 lb

0 lb

66,100 lb

110,200 lb

|  +  39.4-118.1 ft |       |  27.6 ft |                                                                                           |  32.2 ft/s |       | 360°                                                                                       |       | ASME B30.5 |                                                                                           |                                                                                              |   |                                                                                             |   |   |                                                                                              |   |   |       |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------|-------|------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------|---|---|----------------------------------------------------------------------------------------------|---|---|-------|--|
|  236.2 ft                                                                                          |       |                                                                                           |                                                                                           |                                                                                             |       |                                                                                            |       |            |                                                                                           |  255.9 ft |   |                                                                                             |   |   |                                                                                              |   |   |       |  |
| SH+LF_1                                                                                                                                                                             |       |                                                                                           |                                                                                           |                                                                                             |       |                                                                                            |       |            |                                                                                           |                                                                                              |   |                                                                                             |   |   |                                                                                              |   |   |       |  |
|  39.4 ft                                                                                           |       |                                                                                           |  78.7 ft |                                                                                             |       |  118.1 ft |       |            |  39.4 ft |                                                                                              |   |  78.7 ft |   |   |  118.1 ft |   |   |       |  |
|  15°                                                                                               |       |                                                                                           |  20°     |                                                                                             |       |  30°      |       |            |  15°     |                                                                                              |   |  20°     |   |   |  30°      |   |   |       |  |
| ft                                                                                                                                                                                  |       | 1,000 lb                                                                                  |                                                                                           |                                                                                             |       |                                                                                            |       |            |                                                                                           |                                                                                              |   |                                                                                             |   |   |                                                                                              |   |   | ft    |  |
| 42.7                                                                                                                                                                                | 368.2 | -                                                                                         | -                                                                                         | -                                                                                           | -     | -                                                                                          | -     | -          | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 42.7  |  |
| 45.9                                                                                                                                                                                | 357.1 | 269.0                                                                                     | -                                                                                         | -                                                                                           | -     | -                                                                                          | -     | -          | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 45.9  |  |
| 49.2                                                                                                                                                                                | 342.8 | 262.4                                                                                     | -                                                                                         | -                                                                                           | -     | -                                                                                          | -     | -          | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 49.2  |  |
| 52.5                                                                                                                                                                                | 328.5 | 255.7                                                                                     | 165.3                                                                                     | -                                                                                           | -     | -                                                                                          | -     | -          | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 52.5  |  |
| 55.8                                                                                                                                                                                | 309.7 | 249.1                                                                                     | 162.6                                                                                     | 178.6                                                                                       | -     | -                                                                                          | -     | -          | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 55.8  |  |
| 59.1                                                                                                                                                                                | 291.0 | 242.5                                                                                     | 159.8                                                                                     | 173.1                                                                                       | -     | -                                                                                          | -     | -          | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 59.1  |  |
| 62.3                                                                                                                                                                                | 275.6 | 237.0                                                                                     | 157.1                                                                                     | 168.1                                                                                       | 129.0 | -                                                                                          | -     | -          | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 62.3  |  |
| 65.6                                                                                                                                                                                | 260.1 | 231.5                                                                                     | 154.3                                                                                     | 163.1                                                                                       | 125.7 | -                                                                                          | -     | -          | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 65.6  |  |
| 68.9                                                                                                                                                                                | 246.9 | 227.1                                                                                     | 151.6                                                                                     | 158.7                                                                                       | 122.9 | -                                                                                          | 108.7 | -          | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 68.9  |  |
| 72.2                                                                                                                                                                                | 233.7 | 222.7                                                                                     | 148.8                                                                                     | 154.3                                                                                       | 120.2 | -                                                                                          | 105.8 | -          | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 72.2  |  |
| 75.5                                                                                                                                                                                | 222.1 | 217.7                                                                                     | 146.6                                                                                     | 149.9                                                                                       | 117.4 | 77.2                                                                                       | 103.1 | -          | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 75.5  |  |
| 78.7                                                                                                                                                                                | 210.5 | 212.7                                                                                     | 144.4                                                                                     | 145.5                                                                                       | 114.6 | 75.8                                                                                       | 100.3 | 79.8       | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 78.7  |  |
| 82.0                                                                                                                                                                                | 201.2 | 203.4                                                                                     | 142.2                                                                                     | 142.2                                                                                       | 112.4 | 74.6                                                                                       | 97.9  | 78.2       | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 82.0  |  |
| 85.3                                                                                                                                                                                | 191.8 | 194.0                                                                                     | 140.0                                                                                     | 138.9                                                                                       | 110.2 | 73.4                                                                                       | 95.5  | 76.5       | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 85.3  |  |
| 91.9                                                                                                                                                                                | 174.2 | 176.4                                                                                     | 136.7                                                                                     | 132.3                                                                                       | 105.8 | 71.0                                                                                       | 91.1  | 73.2       | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 91.9  |  |
| 98.4                                                                                                                                                                                | 157.6 | 159.8                                                                                     | 132.3                                                                                     | 125.7                                                                                       | 101.6 | 68.8                                                                                       | 87.1  | 70.3       | 46.1                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 98.4  |  |
| 101.7                                                                                                                                                                               | 150.5 | 152.4                                                                                     | 130.6                                                                                     | 123.2                                                                                       | 99.8  | 67.8                                                                                       | 85.3  | 69.1       | 45.4                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 101.7 |  |
| 111.5                                                                                                                                                                               | 129.0 | 130.1                                                                                     | 125.7                                                                                     | 115.7                                                                                       | 94.4  | 64.8                                                                                       | 79.8  | 65.3       | 43.2                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 111.5 |  |
| 124.7                                                                                                                                                                               | 107.6 | 108.7                                                                                     | 110.2                                                                                     | 106.7                                                                                       | 88.0  | 61.3                                                                                       | 73.4  | 60.4       | 40.6                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 124.7 |  |
| 137.8                                                                                                                                                                               | 90.2  | 91.3                                                                                      | 93.0                                                                                      | 98.1                                                                                        | 82.5  | 58.4                                                                                       | 67.9  | 56.4       | 38.4                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 137.8 |  |
| 150.9                                                                                                                                                                               | 75.6  | 76.7                                                                                      | 78.5                                                                                      | 83.8                                                                                        | 77.6  | 55.6                                                                                       | 62.8  | 52.7       | 36.4                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 150.9 |  |
| 164.0                                                                                                                                                                               | 63.5  | 64.4                                                                                      | 65.7                                                                                      | 71.7                                                                                        | 73.4  | 53.1                                                                                       | 58.9  | 49.6       | 34.4                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 164.0 |  |
| 177.2                                                                                                                                                                               | 53.1  | 54.0                                                                                      | 55.1                                                                                      | 61.1                                                                                        | 62.6  | 51.1                                                                                       | 55.6  | 47.0       | 32.8                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 177.2 |  |
| 190.3                                                                                                                                                                               | 44.5  | 45.2                                                                                      | 46.3                                                                                      | 52.0                                                                                        | 53.4  | 49.2                                                                                       | 52.7  | 44.5       | 31.5                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 190.3 |  |
| 203.4                                                                                                                                                                               | 37.3  | 37.7                                                                                      | 38.6                                                                                      | 44.3                                                                                        | 45.4  | 47.6                                                                                       | 49.6  | 42.3       | 30.2                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 203.4 |  |
| 210.0                                                                                                                                                                               | 34.1  | 34.5                                                                                      | 35.1                                                                                      | 40.9                                                                                        | 42.0  | 44.1                                                                                       | 46.2  | 41.3       | 29.5                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 210.0 |  |
| 216.5                                                                                                                                                                               | 30.9  | 31.3                                                                                      | -                                                                                         | 37.5                                                                                        | 38.6  | 40.6                                                                                       | 42.8  | 40.3       | 28.9                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 216.5 |  |
| 223.1                                                                                                                                                                               | 28.1  | 28.4                                                                                      | -                                                                                         | 34.6                                                                                        | 35.6  | 37.3                                                                                       | 39.7  | 39.2       | 28.4                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 223.1 |  |
| 229.7                                                                                                                                                                               | 25.4  | 25.6                                                                                      | -                                                                                         | 31.7                                                                                        | 32.6  | 34.2                                                                                       | 36.6  | 38.1       | 28.0                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 229.7 |  |
| 236.2                                                                                                                                                                               | 22.9  | 23.1                                                                                      | -                                                                                         | 29.1                                                                                        | 30.0  | 31.4                                                                                       | 34.0  | 35.3       | 27.4                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 236.2 |  |
| 242.8                                                                                                                                                                               | 20.5  | -                                                                                         | -                                                                                         | 26.5                                                                                        | 27.3  | 28.7                                                                                       | 31.3  | 32.6       | 26.9                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 242.8 |  |
| 246.1                                                                                                                                                                               | 19.4  | -                                                                                         | -                                                                                         | 25.2                                                                                        | 26.1  | 27.3                                                                                       | 30.1  | 31.4       | 26.7                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 246.1 |  |
| 249.3                                                                                                                                                                               | 18.3  | -                                                                                         | -                                                                                         | 24.0                                                                                        | 24.8  | -                                                                                          | 28.9  | 30.1       | 26.6                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 249.3 |  |
| 252.6                                                                                                                                                                               | -     | -                                                                                         | -                                                                                         | 22.9                                                                                        | 23.6  | -                                                                                          | 27.7  | 28.8       | 26.4                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 252.6 |  |
| 255.9                                                                                                                                                                               | -     | -                                                                                         | -                                                                                         | 21.8                                                                                        | 22.5  | -                                                                                          | 26.5  | 27.6       | 26.2                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 255.9 |  |
| 262.5                                                                                                                                                                               | -     | -                                                                                         | -                                                                                         | 19.7                                                                                        | 20.4  | -                                                                                          | 24.3  | 25.4       | 25.6                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 262.5 |  |
| 265.7                                                                                                                                                                               | -     | -                                                                                         | -                                                                                         | 18.7                                                                                        | 19.3  | -                                                                                          | 23.1  | 24.3       | 25.2                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 265.7 |  |
| 269.0                                                                                                                                                                               | -     | -                                                                                         | -                                                                                         | 17.6                                                                                        | 18.3  | -                                                                                          | 22.0  | 23.1       | 24.9                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 269.0 |  |
| 275.6                                                                                                                                                                               | -     | -                                                                                         | -                                                                                         | 15.9                                                                                        | 16.3  | -                                                                                          | 20.2  | 21.1       | 22.7                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 275.6 |  |
| 282.2                                                                                                                                                                               | -     | -                                                                                         | -                                                                                         | 14.1                                                                                        | -     | -                                                                                          | 18.3  | 19.2       | 20.7                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 282.2 |  |
| 285.4                                                                                                                                                                               | -     | -                                                                                         | -                                                                                         | 13.2                                                                                        | -     | -                                                                                          | 17.4  | 18.2       | 19.6                                                                                      | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 285.4 |  |
| 292.0                                                                                                                                                                               | -     | -                                                                                         | -                                                                                         | -                                                                                           | -     | -                                                                                          | 15.7  | 16.4       | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 292.0 |  |
| 295.3                                                                                                                                                                               | -     | -                                                                                         | -                                                                                         | -                                                                                           | -     | -                                                                                          | 14.8  | 15.4       | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 295.3 |  |
| 298.6                                                                                                                                                                               | -     | -                                                                                         | -                                                                                         | -                                                                                           | -     | -                                                                                          | 13.9  | 14.6       | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 298.6 |  |
| 308.4                                                                                                                                                                               | -     | -                                                                                         | -                                                                                         | -                                                                                           | -     | -                                                                                          | 11.5  | 12.1       | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 308.4 |  |
| 311.7                                                                                                                                                                               | -     | -                                                                                         | -                                                                                         | -                                                                                           | -     | -                                                                                          | 10.7  | 11.2       | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 311.7 |  |
| 315.0                                                                                                                                                                               | -     | -                                                                                         | -                                                                                         | -                                                                                           | -     | -                                                                                          | 10.0  | -          | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 315.0 |  |
| 318.2                                                                                                                                                                               | -     | -                                                                                         | -                                                                                         | -                                                                                           | -     | -                                                                                          | 9.3   | -          | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 318.2 |  |
| 321.5                                                                                                                                                                               | -     | -                                                                                         | -                                                                                         | -                                                                                           | -     | -                                                                                          | 8.6   | -          | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 321.5 |  |
| 324.8                                                                                                                                                                               | -     | -                                                                                         | -                                                                                         | -                                                                                           | -     | -                                                                                          | 7.9   | -          | -                                                                                         | -                                                                                            | - | -                                                                                           | - | - | -                                                                                            | - | - | 324.8 |  |

99,200 lb

187,400 lb

275,600 lb

363,800 lb

408,000 lb

452,000 lb

0 lb

66,100 lb

110,200 lb

|  +  39.4-118.1 ft |       |                                                                                       |       |  27.6 ft |       |                                                                                       |                                                                                            |  32.2 ft/s |      |                                                                                           |   | 360°                                                                                       |                                                                                             |                                                                                         | ASME B30.5 |                                                                                             |      |                                                                                              |       |                                                                                         |       |                                                                                         |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------|-------|
|  275.6 ft                                                                                          |       |                                                                                       |       |                                                                                           |       |                                                                                       |                                                                                            |                                                                                             |      |                                                                                           |   |  295.3 ft |                                                                                             |                                                                                         |            |                                                                                             |      |  315.0 ft |       |                                                                                         |       |                                                                                         |       |
| SH+LF_1                                                                                                                                                                             |       |                                                                                       |       |                                                                                           |       |                                                                                       |                                                                                            |                                                                                             |      |                                                                                           |   |                                                                                            |                                                                                             |                                                                                         |            |                                                                                             |      |                                                                                              |       |                                                                                         |       |                                                                                         |       |
|  39.4 ft                                                                                           |       |                                                                                       |       |  78.7 ft |       |                                                                                       |  118.1 ft |                                                                                             |      |  39.4 ft |   |                                                                                            |  78.7 ft |                                                                                         |            |  39.4 ft |      |                                                                                              |       |                                                                                         |       |                                                                                         |       |
|  15°                                                                                               |       |  20° |       |  30°     |       |  15° |                                                                                            |  20°       |      |  30°     |   |  15°    |                                                                                             |  20° |            |  30°     |      |  15°      |       |  20° |       |  30° |       |
| ft                                                                                                                                                                                  |       | 1,000 lb                                                                              |       |                                                                                           |       |                                                                                       |                                                                                            |                                                                                             |      |                                                                                           |   |                                                                                            |                                                                                             |                                                                                         |            |                                                                                             |      |                                                                                              | ft    |                                                                                         |       |                                                                                         |       |
| 45.9                                                                                                                                                                                | 348.3 | -                                                                                     | -     | -                                                                                         | -     | -                                                                                     | -                                                                                          | -                                                                                           | -    | -                                                                                         | - | -                                                                                          | -                                                                                           | -                                                                                       | -          | -                                                                                           | -    | -                                                                                            | -     | -                                                                                       | -     | -                                                                                       | 45.9  |
| 49.2                                                                                                                                                                                | 327.4 | 269.0                                                                                 | -     | -                                                                                         | -     | -                                                                                     | -                                                                                          | -                                                                                           | -    | -                                                                                         | - | 313.1                                                                                      | -                                                                                           | -                                                                                       | -          | -                                                                                           | -    | -                                                                                            | 299.8 | -                                                                                       | -     | -                                                                                       | 49.2  |
| 52.5                                                                                                                                                                                | 306.4 | 262.4                                                                                 | -     | -                                                                                         | -     | -                                                                                     | -                                                                                          | -                                                                                           | -    | -                                                                                         | - | 293.2                                                                                      | 266.8                                                                                       | -                                                                                       | -          | -                                                                                           | -    | -                                                                                            | 282.2 | 269.0                                                                                   | -     | -                                                                                       | 52.5  |
| 55.8                                                                                                                                                                                | 288.8 | 256.8                                                                                 | 165.3 | -                                                                                         | -     | -                                                                                     | -                                                                                          | -                                                                                           | -    | -                                                                                         | - | 276.7                                                                                      | 261.2                                                                                       | -                                                                                       | -          | -                                                                                           | -    | -                                                                                            | 265.7 | 261.2                                                                                   | -     | -                                                                                       | 55.8  |
| 59.1                                                                                                                                                                                | 271.2 | 251.3                                                                                 | 162.0 | 177.5                                                                                     | -     | -                                                                                     | -                                                                                          | -                                                                                           | -    | -                                                                                         | - | 260.1                                                                                      | 255.7                                                                                       | 163.1                                                                                   | -          | -                                                                                           | -    | -                                                                                            | 249.1 | 253.5                                                                                   | 164.2 | -                                                                                       | 59.1  |
| 62.3                                                                                                                                                                                | 255.7 | 245.8                                                                                 | 159.8 | 173.1                                                                                     | -     | -                                                                                     | -                                                                                          | -                                                                                           | -    | -                                                                                         | - | 245.8                                                                                      | 245.8                                                                                       | 160.9                                                                                   | 174.2      | -                                                                                           | -    | -                                                                                            | 235.9 | 239.2                                                                                   | 162.0 | -                                                                                       | 62.3  |
| 65.6                                                                                                                                                                                | 240.3 | 240.3                                                                                 | 157.6 | 168.7                                                                                     | 129.0 | -                                                                                     | -                                                                                          | -                                                                                           | -    | -                                                                                         | - | 231.5                                                                                      | 235.9                                                                                       | 158.7                                                                                   | 169.8      | -                                                                                           | -    | -                                                                                            | 222.7 | 224.9                                                                                   | 159.8 | -                                                                                       | 65.6  |
| 68.9                                                                                                                                                                                | 228.7 | 229.8                                                                                 | 154.9 | 164.2                                                                                     | 126.2 | -                                                                                     | -                                                                                          | -                                                                                           | -    | -                                                                                         | - | 219.9                                                                                      | 223.8                                                                                       | 156.5                                                                                   | 165.9      | 127.9                                                                                       | -    | -                                                                                            | 211.1 | 213.8                                                                                   | 157.6 | -                                                                                       | 68.9  |
| 72.2                                                                                                                                                                                | 217.2 | 219.4                                                                                 | 152.1 | 159.8                                                                                     | 123.5 | -                                                                                     | 106.7                                                                                      | -                                                                                           | -    | -                                                                                         | - | 208.3                                                                                      | 211.6                                                                                       | 154.3                                                                                   | 162.0      | 124.6                                                                                       | -    | -                                                                                            | 199.5 | 202.8                                                                                   | 155.4 | -                                                                                       | 72.2  |
| 78.7                                                                                                                                                                                | 196.2 | 198.4                                                                                 | 147.7 | 152.1                                                                                     | 117.9 | 76.7                                                                                  | 101.6                                                                                      | -                                                                                           | -    | -                                                                                         | - | 188.5                                                                                      | 190.7                                                                                       | 149.9                                                                                   | 154.3      | 120.2                                                                                       | -    | -                                                                                            | 179.7 | 183.0                                                                                   | 151.0 | -                                                                                       | 78.7  |
| 82.0                                                                                                                                                                                | 186.8 | 189.0                                                                                 | 146.1 | 148.8                                                                                     | 115.7 | 75.5                                                                                  | 99.4                                                                                       | -                                                                                           | -    | -                                                                                         | - | 179.7                                                                                      | 181.9                                                                                       | 147.7                                                                                   | 151.0      | 117.9                                                                                       | 75.8 | -                                                                                            | 171.4 | 174.2                                                                                   | 149.4 | -                                                                                       | 82.0  |
| 85.3                                                                                                                                                                                | 177.5 | 179.7                                                                                 | 144.4 | 145.5                                                                                     | 113.5 | 74.3                                                                                  | 97.2                                                                                       | 77.2                                                                                        | -    | -                                                                                         | - | 170.9                                                                                      | 173.1                                                                                       | 145.5                                                                                   | 147.7      | 115.7                                                                                       | 74.7 | 163.1                                                                                        | 165.3 | 147.7                                                                                   | -     | -                                                                                       | 85.3  |
| 91.9                                                                                                                                                                                | 162.0 | 164.2                                                                                 | 140.0 | 138.9                                                                                     | 109.8 | 72.3                                                                                  | 93.0                                                                                       | 74.1                                                                                        | -    | -                                                                                         | - | 155.4                                                                                      | 157.6                                                                                       | 142.2                                                                                   | 142.2      | 111.3                                                                                       | 72.8 | 147.7                                                                                        | 149.9 | 143.3                                                                                   | -     | -                                                                                       | 91.9  |
| 98.4                                                                                                                                                                                | 147.7 | 149.9                                                                                 | 136.7 | 132.3                                                                                     | 105.8 | 70.1                                                                                  | 89.3                                                                                       | 71.4                                                                                        | -    | -                                                                                         | - | 141.1                                                                                      | 143.3                                                                                       | 138.9                                                                                   | 135.6      | 107.6                                                                                       | 70.8 | 134.5                                                                                        | 136.7 | 140.0                                                                                   | -     | -                                                                                       | 98.4  |
| 101.7                                                                                                                                                                               | 141.9 | 143.9                                                                                 | 134.8 | 129.8                                                                                     | 104.0 | 69.2                                                                                  | 87.6                                                                                       | 70.2                                                                                        | 45.4 | -                                                                                         | - | 135.6                                                                                      | 137.5                                                                                       | 135.0                                                                                   | 132.3      | 105.8                                                                                       | 69.8 | 129.0                                                                                        | 130.6 | 134.5                                                                                   | -     | -                                                                                       | 101.7 |
| 111.5                                                                                                                                                                               | 124.6 | 125.7                                                                                 | 129.0 | 122.4                                                                                     | 98.5  | 66.4                                                                                  | 82.7                                                                                       | 66.6                                                                                        | 43.4 | -                                                                                         | - | 119.0                                                                                      | 120.2                                                                                       | 123.5                                                                                   | 122.4      | 100.3                                                                                       | 67.0 | 112.4                                                                                        | 113.5 | 117.9                                                                                   | -     | -                                                                                       | 111.5 |
| 124.7                                                                                                                                                                               | 103.0 | 104.3                                                                                 | 106.5 | 110.0                                                                                     | 92.2  | 63.1                                                                                  | 76.5                                                                                       | 62.4                                                                                        | 41.0 | -                                                                                         | - | 100.1                                                                                      | 101.4                                                                                       | 104.1                                                                                   | 104.9      | 94.1                                                                                        | 63.9 | 94.6                                                                                         | 96.1  | 99.0                                                                                    | -     | -                                                                                       | 124.7 |
| 137.8                                                                                                                                                                               | 85.1  | 86.2                                                                                  | 88.6  | 93.9                                                                                      | 86.9  | 60.2                                                                                  | 71.0                                                                                       | 58.4                                                                                        | 39.0 | -                                                                                         | - | 81.6                                                                                       | 83.1                                                                                        | 85.5                                                                                    | 89.7       | 88.6                                                                                        | 61.1 | 77.8                                                                                         | 79.1  | 82.0                                                                                    | -     | -                                                                                       | 137.8 |
| 150.9                                                                                                                                                                               | 70.1  | 71.2                                                                                  | 73.2  | 79.4                                                                                      | 81.4  | 57.5                                                                                  | 66.1                                                                                       | 54.9                                                                                        | 37.0 | -                                                                                         | - | 66.6                                                                                       | 67.9                                                                                        | 70.1                                                                                    | 76.3       | 78.7                                                                                        | 58.4 | 62.6                                                                                         | 63.9  | 66.4                                                                                    | -     | -                                                                                       | 150.9 |
| 164.0                                                                                                                                                                               | 57.8  | 58.6                                                                                  | 60.4  | 66.6                                                                                      | 68.6  | 55.1                                                                                  | 61.9                                                                                       | 51.8                                                                                        | 35.3 | -                                                                                         | - | 54.2                                                                                       | 55.3                                                                                        | 57.3                                                                                    | 63.5       | 65.7                                                                                        | 56.0 | 50.3                                                                                         | 51.4  | 53.6                                                                                    | -     | -                                                                                       | 164.0 |
| 177.2                                                                                                                                                                               | 47.4  | 48.3                                                                                  | 49.8  | 55.8                                                                                      | 57.8  | 53.1                                                                                  | 58.4                                                                                       | 48.9                                                                                        | 33.7 | -                                                                                         | - | 43.9                                                                                       | 44.8                                                                                        | 46.5                                                                                    | 52.7       | 54.7                                                                                        | 53.8 | 39.9                                                                                         | 40.8  | 42.8                                                                                    | -     | -                                                                                       | 177.2 |
| 190.3                                                                                                                                                                               | 38.6  | 39.5                                                                                  | 40.8  | 46.7                                                                                      | 48.3  | 51.1                                                                                  | 52.9                                                                                       | 46.5                                                                                        | 32.4 | -                                                                                         | - | 35.1                                                                                       | 35.9                                                                                        | 37.5                                                                                    | 43.7       | 45.4                                                                                        | 48.5 | 31.1                                                                                         | 32.0  | 33.5                                                                                    | -     | -                                                                                       | 190.3 |
| 203.4                                                                                                                                                                               | 31.3  | 32.0                                                                                  | 33.1  | 39.0                                                                                      | 40.3  | 43.0                                                                                  | 44.8                                                                                       | 44.8                                                                                        | 31.1 | -                                                                                         | - | 27.6                                                                                       | 28.4                                                                                        | 29.5                                                                                    | 35.7       | 37.3                                                                                        | 40.1 | 23.4                                                                                         | 24.3  | 25.8                                                                                    | -     | -                                                                                       | 203.4 |
| 216.5                                                                                                                                                                               | 24.7  | 25.4                                                                                  | 26.2  | 32.2                                                                                      | 33.5  | 35.7                                                                                  | 37.7                                                                                       | 39.7                                                                                        | 30.0 | -                                                                                         | - | 21.2                                                                                       | 21.8                                                                                        | 22.9                                                                                    | 28.9       | 30.4                                                                                        | 32.8 | 17.0                                                                                         | 17.6  | 19.0                                                                                    | -     | -                                                                                       | 216.5 |
| 229.7                                                                                                                                                                               | 19.2  | 19.6                                                                                  | 20.5  | 26.2                                                                                      | 27.3  | 29.3                                                                                  | 31.5                                                                                       | 33.3                                                                                        | 28.9 | -                                                                                         | - | 15.4                                                                                       | 16.1                                                                                        | 17.0                                                                                    | 22.9       | 24.3                                                                                        | 26.5 | 11.2                                                                                         | 11.9  | 13.0                                                                                    | -     | -                                                                                       | 229.7 |
| 236.2                                                                                                                                                                               | 16.7  | 17.1                                                                                  | 17.9  | 23.6                                                                                      | 24.5  | 26.5                                                                                  | 28.8                                                                                       | 30.5                                                                                        | 28.4 | -                                                                                         | - | 12.9                                                                                       | 13.6                                                                                        | 14.3                                                                                    | 20.3       | 21.5                                                                                        | 23.5 | 8.6                                                                                          | 9.3   | 10.4                                                                                    | -     | -                                                                                       | 236.2 |
| 239.5                                                                                                                                                                               | 15.4  | 15.9                                                                                  | -     | 22.3                                                                                      | 23.3  | 25.1                                                                                  | 27.4                                                                                       | 29.2                                                                                        | 28.2 | -                                                                                         | - | 11.6                                                                                       | 12.3                                                                                        | 13.0                                                                                    | 19.0       | 20.1                                                                                        | 22.1 | -                                                                                            | 7.9   | 9.0                                                                                     | -     | -                                                                                       | 239.5 |
| 242.8                                                                                                                                                                               | 14.1  | 14.6                                                                                  | -     | 20.9                                                                                      | 22.0  | 23.8                                                                                  | 26.0                                                                                       | 27.8                                                                                        | 28.0 | -                                                                                         | - | 10.4                                                                                       | 11.0                                                                                        | 11.7                                                                                    | 17.6       | 18.7                                                                                        | 20.7 | -                                                                                            | -     | 7.7                                                                                     | -     | -                                                                                       | 242.8 |
| 249.3                                                                                                                                                                               | 12.0  | 12.3                                                                                  | -     | 18.6                                                                                      | 19.6  | 21.3                                                                                  | 23.6                                                                                       | 25.3                                                                                        | 26.7 | -                                                                                         | - | 8.2                                                                                        | 8.6                                                                                         | 9.5                                                                                     | 15.2       | 16.4                                                                                        | 18.2 | -                                                                                            | -     | -                                                                                       | -     | -                                                                                       | 249.3 |
| 255.9                                                                                                                                                                               | 9.9   | 10.1                                                                                  | -     | 16.3                                                                                      | 17.2  | 18.7                                                                                  | 21.2                                                                                       | 22.7                                                                                        | 25.4 | -                                                                                         | - | -                                                                                          | -                                                                                           | -                                                                                       | 13.0       | 13.9                                                                                        | 15.7 | -                                                                                            | -     | -                                                                                       | -     | -                                                                                       | 255.9 |
| 262.5                                                                                                                                                                               | 7.9   | 8.2                                                                                   | -     | 14.2                                                                                      | 15.0  | 16.4                                                                                  | 19.1                                                                                       | 20.5                                                                                        | 22.9 | -                                                                                         | - | -                                                                                          | -                                                                                           | -                                                                                       | 10.9       | 11.8                                                                                        | 13.4 | -                                                                                            | -     | -                                                                                       | -     | -                                                                                       | 262.5 |
| 269.0                                                                                                                                                                               | -     | -                                                                                     | -     | 12.1                                                                                      | 12.8  | 14.1                                                                                  | 17.0                                                                                       | 18.3                                                                                        | 20.5 | -                                                                                         | - | -                                                                                          | -                                                                                           | -                                                                                       | 8.8        | 9.7                                                                                         | 11.2 | -                                                                                            | -     | -                                                                                       | -     | -                                                                                       | 269.0 |
| 272.3                                                                                                                                                                               | -     | -                                                                                     | -     | 11.2                                                                                      | 11.8  | 13.1                                                                                  | 16.0                                                                                       | 17.3                                                                                        | 19.5 | -                                                                                         | - | -                                                                                          | -                                                                                           | -                                                                                       | 7.7        | 8.6                                                                                         | 10.2 | -                                                                                            | -     | -                                                                                       | -     | -                                                                                       | 272.3 |
| 275.6                                                                                                                                                                               | -     | -                                                                                     | -     | 10.3                                                                                      | 10.9  | 12.1                                                                                  | 15.0                                                                                       | 16.2                                                                                        | 18.4 | -                                                                                         | - | -                                                                                          | -                                                                                           | -                                                                                       | -          | -                                                                                           | 9.2  | -                                                                                            | -     | -                                                                                       | -     | -                                                                                       | 275.6 |
| 278.9                                                                                                                                                                               | -     | -                                                                                     | -     | 9.3                                                                                       | 10.0  | -                                                                                     | 14.0                                                                                       | 15.2                                                                                        | 17.4 | -                                                                                         | - | -                                                                                          | -                                                                                           | -                                                                                       | -          | -                                                                                           | 8.2  | -                                                                                            | -     | -                                                                                       | -     | -                                                                                       | 278.9 |
| 282.2                                                                                                                                                                               | -     | -                                                                                     | -     | 8.4                                                                                       | 9.0   | -                                                                                     | 13.0                                                                                       | 14.1                                                                                        | 16.3 | -                                                                                         | - | -                                                                                          | -                                                                                           | -                                                                                       | -          | -                                                                                           | -    | -                                                                                            | -     | -                                                                                       | -     | -                                                                                       | 282.2 |
| 285.4                                                                                                                                                                               | -     | -                                                                                     | -     | -                                                                                         | 8.2   | -                                                                                     | 12.1                                                                                       | 13.2                                                                                        | 15.3 | -                                                                                         | - | -                                                                                          | -                                                                                           | -                                                                                       | -          | -                                                                                           | -    | -                                                                                            | -     | -                                                                                       | -     | -                                                                                       | 285.4 |
| 295.3                                                                                                                                                                               | -     | -                                                                                     | -     | -                                                                                         | -     | -                                                                                     | 9.5                                                                                        | 10.6                                                                                        | 12.3 | -                                                                                         | - | -                                                                                          | -                                                                                           | -                                                                                       | -          | -                                                                                           | -    | -                                                                                            | -     | -                                                                                       | -     | -                                                                                       | 295.3 |
| 301.8                                                                                                                                                                               | -     | -                                                                                     | -     | -                                                                                         | -     | -                                                                                     | 7.7                                                                                        | 8.8                                                                                         | 10.5 | -                                                                                         | - | -                                                                                          | -                                                                                           | -                                                                                       | -          | -                                                                                           | -    | -                                                                                            | -     | -                                                                                       | -     | -                                                                                       | 301.8 |
| 305.1                                                                                                                                                                               | -     | -                                                                                     | -     | -                                                                                         | -     | -                                                                                     | -                                                                                          | 7.9                                                                                         | 9.5  | -                                                                                         | - | -                                                                                          | -                                                                                           | -                                                                                       | -          | -                                                                                           | -    | -                                                                                            | -     | -                                                                                       | -     | -                                                                                       | 305.1 |
| 308.4                                                                                                                                                                               | -     | -                                                                                     | -     | -                                                                                         | -     | -                                                                                     | -                                                                                          | -                                                                                           | 8.6  | -                                                                                         | - | -                                                                                          | -                                                                                           | -                                                                                       | -          | -                                                                                           | -    | -                                                                                            | -     | -                                                                                       | -     | -                                                                                       | 308.4 |
| 311.7                                                                                                                                                                               | -     | -                                                                                     | -     | -                                                                                         | -     | -                                                                                     | -                                                                                          | -                                                                                           | 7.9  | -                                                                                         | - | -                                                                                          | -                                                                                           | -                                                                                       | -          | -                                                                                           | -    | -                                                                                            | -     | -                                                                                       | -     | -                                                                                       | 311.7 |

|  |           |            |            |            |            |            |
|--|-----------|------------|------------|------------|------------|------------|
|  | 99,200 lb | 187,400 lb | 275,600 lb | 363,800 lb | 408,000 lb | 452,000 lb |
|  | 0 lb      |            | 66,100 lb  |            | 110,200 lb |            |

|  39.4 ft |       |  27.6 ft |       |  32.2 ft/s |       | 360°       |       | ASME B30.5 |       |            |       |            |       |            |       |       |       |       |       |     |  |
|-------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|-------|-------|-------|-------|-----|--|
| 157.5 ft                                                                                  |       | 177.2 ft                                                                                  |       | 196.9 ft                                                                                     |       | 216.5 ft   |       | 236.2 ft   |       | 246.1 ft   |       |            |       |            |       |       |       |       |       |     |  |
| LH+LF_1                                                                                   |       |                                                                                           |       |                                                                                              |       |            |       | LH+LF_3    |       |            |       |            |       |            |       |       |       |       |       |     |  |
| 39.4 ft                                                                                   |       |                                                                                           |       |                                                                                              |       |            |       |            |       |            |       |            |       |            |       |       |       |       |       |     |  |
| 15°                                                                                       |       | 20°                                                                                       |       | 30°                                                                                          |       | 15°        |       | 20°        |       | 30°        |       | 15°        |       | 20°        |       | 30°   |       | 15°   |       | 20° |  |
| 1,000 lb                                                                                  |       |                                                                                           |       |                                                                                              |       |            |       |            |       |            |       |            |       |            |       |       |       |       |       |     |  |
| 32.8                                                                                      | 392.4 | -                                                                                         | -     | -                                                                                            | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -     | -     | -     | -     | -   |  |
| 36.1                                                                                      | 374.8 | 291.0                                                                                     | -     | 385.8                                                                                        | -     | -          | 392.4 | -          | -     | -          | -     | -          | -     | -          | -     | -     | -     | -     | -     | -   |  |
| 39.4                                                                                      | 357.1 | 280.0                                                                                     | -     | 368.2                                                                                        | 286.6 | -          | 379.2 | 291.0      | -     | 370.4      | -     | -          | 352.7 | -          | -     | 341.7 | -     | 339.5 | -     | -   |  |
| 42.7                                                                                      | 342.8 | 270.1                                                                                     | 180.8 | 353.8                                                                                        | 276.7 | 183.0      | 364.9 | 282.2      | -     | 359.4      | 286.6 | -          | 342.8 | 291.0      | -     | 335.1 | 251.3 | 334.0 | -     | -   |  |
| 45.9                                                                                      | 328.5 | 260.1                                                                                     | 176.4 | 339.5                                                                                        | 266.8 | 178.6      | 350.5 | 273.4      | 180.8 | 348.3      | 277.8 | 181.9      | 332.9 | 282.2      | -     | 328.5 | 244.7 | 328.5 | 246.9 | -   |  |
| 49.2                                                                                      | 316.4 | 252.4                                                                                     | 172.0 | 327.4                                                                                        | 259.0 | 174.7      | 338.4 | 265.7      | 176.9 | 337.3      | 271.2 | 178.6      | 324.1 | 275.6      | 179.7 | 319.7 | 239.2 | 321.9 | 240.3 | -   |  |
| 52.5                                                                                      | 304.2 | 244.7                                                                                     | 167.6 | 315.3                                                                                        | 251.3 | 170.9      | 326.3 | 257.9      | 173.1 | 326.3      | 264.6 | 175.3      | 315.3 | 269.0      | 176.4 | 310.9 | 233.7 | 315.3 | 233.7 | -   |  |
| 59.1                                                                                      | 282.2 | 229.3                                                                                     | 159.8 | 295.4                                                                                        | 238.1 | 163.1      | 306.4 | 244.7      | 166.4 | 308.6      | 251.3 | 168.7      | 297.6 | 255.7      | 170.9 | 293.2 | 222.7 | 291.0 | 224.9 | -   |  |
| 65.6                                                                                      | 264.6 | 218.3                                                                                     | 153.2 | 277.8                                                                                        | 224.9 | 156.5      | 286.6 | 231.5      | 159.8 | 275.6      | 238.1 | 162.0      | 266.8 | 244.7      | 164.2 | 266.8 | 212.7 | 262.4 | 215.0 | -   |  |
| 72.2                                                                                      | 249.1 | 207.2                                                                                     | 147.7 | 260.1                                                                                        | 215.0 | 151.0      | 257.9 | 220.5      | 154.3 | 249.1      | 227.1 | 156.5      | 240.3 | 233.7      | 159.8 | 240.3 | 202.8 | 235.9 | 205.0 | -   |  |
| 78.7                                                                                      | 233.7 | 196.2                                                                                     | 142.2 | 235.9                                                                                        | 205.0 | 145.5      | 233.7 | 211.6      | 148.8 | 224.9      | 218.3 | 152.1      | 219.4 | 220.5      | 154.3 | 218.3 | 195.1 | 213.8 | 197.3 | -   |  |
| 85.3                                                                                      | 213.8 | 187.4                                                                                     | 136.7 | 211.6                                                                                        | 195.1 | 141.1      | 209.4 | 202.8      | 144.4 | 206.1      | 208.3 | 146.6      | 199.5 | 201.7      | 149.9 | 199.5 | 187.4 | 195.1 | 189.6 | -   |  |
| 91.9                                                                                      | 192.9 | 179.7                                                                                     | 132.3 | 190.7                                                                                        | 187.4 | 135.6      | 188.5 | 189.6      | 140.0 | 185.2      | 186.3 | 142.2      | 183.0 | 185.2      | 145.5 | 183.0 | 180.8 | 179.7 | 180.8 | -   |  |
| 98.4                                                                                      | 175.3 | 172.0                                                                                     | 127.9 | 173.1                                                                                        | 174.2 | 132.3      | 169.8 | 170.9      | 135.6 | 167.6      | 168.7 | 138.9      | 165.3 | 166.4      | 141.1 | 165.3 | 166.4 | 164.2 | 165.3 | -   |  |
| 111.5                                                                                     | 146.6 | 147.7                                                                                     | 120.2 | 144.4                                                                                        | 145.5 | 124.6      | 141.1 | 142.2      | 127.9 | 138.9      | 140.0 | 131.2      | 136.7 | 137.8      | 134.5 | 136.7 | 137.8 | 134.5 | 136.7 | -   |  |
| 124.7                                                                                     | 125.7 | 125.7                                                                                     | 114.6 | 122.4                                                                                        | 123.5 | 117.9      | 120.2 | 120.2      | 122.4 | 116.8      | 117.9 | 119.0      | 114.6 | 115.7      | 116.8 | 114.6 | 115.7 | 113.5 | 113.5 | -   |  |
| 137.8                                                                                     | 108.9 | 109.3                                                                                     | 110.0 | 106.0                                                                                        | 106.7 | 107.6      | 103.2 | 103.8      | 104.9 | 100.1      | 101.0 | 102.1      | 98.1  | 98.8       | 100.3 | 97.7  | 98.5  | 96.1  | 97.0  | -   |  |
| 150.9                                                                                     | 95.2  | 95.5                                                                                      | 96.1  | 92.4                                                                                         | 92.8  | 93.5       | 89.3  | 89.9       | 90.8  | 86.2       | 86.9  | 88.0       | 84.2  | 84.9       | 86.0  | 83.8  | 84.7  | 82.2  | 82.9  | -   |  |
| 154.2                                                                                     | 92.4  | 92.6                                                                                      | 93.0  | 89.6                                                                                         | 89.9  | 90.6       | 86.4  | 87.0       | 87.9  | 83.4       | 84.0  | 84.9       | 81.4  | 82.0       | 83.1  | 80.9  | 81.7  | 79.3  | 80.0  | -   |  |
| 164.0                                                                                     | 84.0  | 84.2                                                                                      | -     | 81.1                                                                                         | 81.4  | 82.0       | 78.0  | 78.5       | 79.4  | 75.0       | 75.4  | 76.3       | 72.8  | 73.2       | 74.3  | 72.3  | 73.0  | 70.3  | 71.2  | -   |  |
| 167.3                                                                                     | 81.7  | 81.9                                                                                      | -     | 78.7                                                                                         | 78.9  | 79.4       | 75.7  | 76.1       | 76.9  | 72.5       | 73.0  | 73.9       | 70.2  | 70.7       | 71.8  | 69.8  | 70.4  | 67.8  | 68.6  | -   |  |
| 173.9                                                                                     | 77.1  | 77.2                                                                                      | -     | 74.0                                                                                         | 74.3  | -          | 70.9  | 71.4       | 72.1  | 67.7       | 68.1  | 69.0       | 65.1  | 65.6       | 66.7  | 64.7  | 65.4  | 62.7  | 63.4  | -   |  |
| 177.2                                                                                     | 74.7  | -                                                                                         | -     | 71.7                                                                                         | 72.1  | -          | 68.6  | 69.0       | 69.7  | 65.3       | 65.7  | 66.6       | 62.6  | 63.1       | 64.2  | 62.2  | 62.8  | 60.2  | 60.8  | -   |  |
| 180.4                                                                                     | 72.8  | -                                                                                         | -     | 69.7                                                                                         | 70.0  | -          | 66.5  | 67.0       | 67.5  | 63.1       | 63.5  | 64.4       | 60.3  | 60.8       | 61.9  | 60.0  | 60.5  | 58.0  | 58.6  | -   |  |
| 183.7                                                                                     | -     | -                                                                                         | -     | 67.7                                                                                         | 68.0  | -          | 64.5  | 64.9       | 65.3  | 61.0       | 61.4  | 62.2       | 58.0  | 58.6       | 59.6  | 57.8  | 58.2  | 55.9  | 56.4  | -   |  |
| 187.0                                                                                     | -     | -                                                                                         | -     | 65.7                                                                                         | 65.9  | -          | 62.4  | 62.9       | -     | 58.8       | 59.2  | 60.0       | 56.0  | 56.5       | 57.3  | 55.7  | 56.1  | 53.7  | 54.2  | -   |  |
| 190.3                                                                                     | -     | -                                                                                         | -     | 63.7                                                                                         | -     | -          | 60.4  | 60.8       | -     | 56.7       | 57.1  | 57.8       | 54.0  | 54.5       | 55.3  | 53.6  | 54.0  | 51.6  | 52.0  | -   |  |
| 196.9                                                                                     | -     | -                                                                                         | -     | 60.4                                                                                         | -     | -          | 56.8  | 57.2       | -     | 53.0       | 53.3  | 53.8       | 50.3  | 50.7       | 51.5  | 49.8  | 50.3  | 47.8  | 48.3  | -   |  |
| 203.4                                                                                     | -     | -                                                                                         | -     | -                                                                                            | -     | -          | 53.1  | 53.6       | -     | 49.4       | 49.6  | -          | 46.5  | 47.0       | 47.6  | 46.1  | 46.5  | 44.1  | 44.5  | -   |  |
| 210.0                                                                                     | -     | -                                                                                         | -     | -                                                                                            | -     | -          | 50.0  | -          | -     | 46.2       | 46.4  | -          | 43.3  | 43.8       | 44.3  | 43.0  | 43.3  | 40.9  | 41.3  | -   |  |
| 213.3                                                                                     | -     | -                                                                                         | -     | -                                                                                            | -     | -          | 48.5  | -          | -     | 44.6       | 44.8  | -          | 41.7  | 42.2       | -     | 41.4  | 41.7  | 39.2  | 39.7  | -   |  |
| 216.5                                                                                     | -     | -                                                                                         | -     | -                                                                                            | -     | -          | -     | -          | -     | 43.0       | 43.2  | -          | 40.1  | 40.6       | -     | 39.9  | 40.1  | 37.7  | 38.1  | -   |  |
| 219.8                                                                                     | -     | -                                                                                         | -     | -                                                                                            | -     | -          | -     | -          | -     | 41.6       | 41.9  | -          | 38.7  | 39.1       | -     | 38.5  | 38.7  | 36.3  | 36.7  | -   |  |
| 229.7                                                                                     | -     | -                                                                                         | -     | -                                                                                            | -     | -          | -     | -          | -     | 37.5       | -     | -          | 34.6  | 35.1       | -     | 34.4  | 34.6  | 32.2  | 32.4  | -   |  |
| 232.9                                                                                     | -     | -                                                                                         | -     | -                                                                                            | -     | -          | -     | -          | -     | 36.4       | -     | -          | 33.5  | 33.7       | -     | 33.2  | 33.4  | 31.0  | 31.2  | -   |  |
| 236.2                                                                                     | -     | -                                                                                         | -     | -                                                                                            | -     | -          | -     | -          | -     | -          | -     | -          | 32.3  | 32.4       | -     | 32.0  | 32.2  | 29.8  | 30.0  | -   |  |
| 242.8                                                                                     | -     | -                                                                                         | -     | -                                                                                            | -     | -          | -     | -          | -     | -          | -     | -          | 30.0  | -          | -     | 29.5  | -     | 27.3  | 27.6  | -   |  |
| 249.3                                                                                     | -     | -                                                                                         | -     | -                                                                                            | -     | -          | -     | -          | -     | -          | -     | -          | 27.8  | -          | -     | 27.3  | -     | 25.2  | -     | -   |  |
| 255.9                                                                                     | -     | -                                                                                         | -     | -                                                                                            | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -     | -     | 23.1  | -     | -   |  |
|        |       | 99,200 lb                                                                                 |       | 187,400 lb                                                                                   |       | 275,600 lb |       | 363,800 lb |       | 408,000 lb |       | 452,000 lb |       | 496,100 lb |       |       |       |       |       |     |  |
|        |       | 0 lb                                                                                      |       |                                                                                              |       |            |       | 66,100 lb  |       |            |       | 110,200 lb |       |            |       |       |       |       |       |     |  |

|  |           |            |            |            |            |            |            |
|--|-----------|------------|------------|------------|------------|------------|------------|
|  | 99,200 lb | 187,400 lb | 275,600 lb | 363,800 lb | 408,000 lb | 452,000 lb | 496,100 lb |
|  | 0 lb      |            | 66,100 lb  |            | 110,200 lb |            |            |

|  39.4 ft |       |  27.6 ft |       |  32.2 ft/s |       | 360°    |       | ASME B30.5 |       |         |       |         |       |       |       |       |       |       |
|-------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------|-------|---------|-------|------------|-------|---------|-------|---------|-------|-------|-------|-------|-------|-------|
| 255.9 ft                                                                                  |       | 265.8 ft                                                                                  |       | 275.6 ft                                                                                     |       |         |       | 285.5 ft   |       |         |       |         |       |       |       |       |       |       |
| LH+LF_1                                                                                   |       | LH+LF_3                                                                                   |       | LH+LF_1                                                                                      |       | LH+LF_3 |       | LH+LF_4    |       | LH+LF_3 |       | LH+LF_4 |       |       |       |       |       |       |
| 39.4 ft                                                                                   |       |                                                                                           |       |                                                                                              |       |         |       |            |       |         |       |         |       |       |       |       |       |       |
| 15°                                                                                       |       | 20°                                                                                       |       | 30°                                                                                          |       | 15°     |       | 20°        |       | 15°     |       | 20°     |       | 15°   |       | 20°   |       |       |
| ft                                                                                        |       | 1,000 lb                                                                                  |       |                                                                                              |       |         |       |            |       |         |       |         |       | ft    |       |       |       |       |
| 42.7                                                                                      | 319.7 | -                                                                                         | -     | 348.3                                                                                        | -     | 350.5   | -     | 302.0      | -     | -       | 339.5 | -       | 385.8 | -     | -     | -     | -     | 42.7  |
| 45.9                                                                                      | 310.9 | 275.6                                                                                     | -     | 337.3                                                                                        | 249.1 | 341.7   | 249.1 | 297.6      | 273.4 | -       | 332.9 | 251.3   | 370.4 | -     | 321.9 | -     | 361.6 | 45.9  |
| 49.2                                                                                      | 302.0 | 269.0                                                                                     | -     | 327.4                                                                                        | 242.5 | 330.7   | 243.6 | 294.3      | 271.2 | -       | 323.0 | 245.8   | 354.9 | 302.0 | 314.2 | 246.9 | 348.3 | 49.2  |
| 52.5                                                                                      | 293.2 | 262.4                                                                                     | 178.6 | 317.5                                                                                        | 235.9 | 319.7   | 238.1 | 291.0      | 269.0 | 179.7   | 313.1 | 240.3   | 341.7 | 295.4 | 306.4 | 240.3 | 335.1 | 52.5  |
| 59.1                                                                                      | 277.8 | 249.1                                                                                     | 172.0 | 288.8                                                                                        | 224.9 | 284.4   | 227.1 | 275.6      | 262.4 | 174.2   | 280.0 | 229.3   | 308.6 | 282.2 | 273.4 | 231.5 | 304.2 | 59.1  |
| 65.6                                                                                      | 255.7 | 238.1                                                                                     | 166.4 | 260.1                                                                                        | 217.2 | 253.5   | 218.3 | 249.1      | 251.3 | 168.7   | 249.1 | 220.5   | 275.6 | 271.2 | 244.7 | 222.7 | 271.2 | 65.6  |
| 72.2                                                                                      | 231.5 | 227.1                                                                                     | 160.9 | 233.7                                                                                        | 207.2 | 229.3   | 209.4 | 224.9      | 227.1 | 163.1   | 224.9 | 211.6   | 246.9 | 251.3 | 220.5 | 213.8 | 242.5 | 72.2  |
| 78.7                                                                                      | 210.5 | 212.7                                                                                     | 156.5 | 213.8                                                                                        | 199.5 | 208.3   | 201.7 | 205.0      | 207.2 | 158.7   | 206.1 | 203.9   | 224.9 | 227.1 | 200.6 | 202.8 | 220.5 | 78.7  |
| 85.3                                                                                      | 191.8 | 194.0                                                                                     | 152.1 | 195.1                                                                                        | 191.8 | 190.7   | 192.9 | 187.4      | 188.5 | 154.3   | 187.4 | 189.6   | 203.9 | 206.1 | 183.0 | 185.2 | 199.5 | 85.3  |
| 91.9                                                                                      | 176.4 | 177.5                                                                                     | 147.7 | 179.7                                                                                        | 180.8 | 175.3   | 176.4 | 170.9      | 173.1 | 149.9   | 172.0 | 174.2   | 186.3 | 188.5 | 167.6 | 169.8 | 181.9 | 91.9  |
| 98.4                                                                                      | 162.0 | 163.1                                                                                     | 144.4 | 165.3                                                                                        | 166.4 | 160.9   | 162.0 | 157.6      | 158.7 | 146.6   | 158.7 | 159.8   | 169.8 | 172.0 | 154.3 | 155.4 | 166.4 | 98.4  |
| 111.5                                                                                     | 133.4 | 134.5                                                                                     | 136.7 | 136.7                                                                                        | 137.8 | 134.5   | 135.6 | 133.4      | 134.5 | 136.7   | 133.4 | 134.5   | 138.9 | 141.1 | 131.2 | 132.3 | 137.8 | 111.5 |
| 124.7                                                                                     | 111.3 | 112.4                                                                                     | 114.6 | 114.6                                                                                        | 115.7 | 112.4   | 113.5 | 111.3      | 112.4 | 113.5   | 111.3 | 112.4   | 115.7 | 116.8 | 109.6 | 110.2 | 113.5 | 124.7 |
| 137.8                                                                                     | 95.0  | 95.9                                                                                      | 97.4  | 97.7                                                                                         | 98.3  | 95.5    | 96.3  | 93.9       | 94.8  | 96.6    | 94.6  | 95.5    | 97.4  | 98.5  | 92.4  | 93.3  | 95.5  | 137.8 |
| 150.9                                                                                     | 80.9  | 81.8                                                                                      | 83.1  | 83.8                                                                                         | 84.4  | 81.4    | 82.2  | 80.0       | 80.7  | 82.2    | 80.7  | 81.4    | 82.0  | 83.1  | 77.8  | 78.9  | 79.8  | 150.9 |
| 164.0                                                                                     | 69.0  | 69.7                                                                                      | 71.0  | 72.1                                                                                         | 72.8  | 69.4    | 70.1  | 67.7       | 68.6  | 70.1    | 68.3  | 69.2    | 69.0  | 69.9  | 65.7  | 66.6  | 66.6  | 164.0 |
| 177.2                                                                                     | 58.6  | 59.3                                                                                      | 60.6  | 61.9                                                                                         | 62.6  | 59.1    | 59.7  | 57.5       | 58.2  | 59.5    | 58.2  | 58.9    | 58.0  | 58.9  | 55.3  | 56.2  | 55.6  | 177.2 |
| 190.3                                                                                     | 50.0  | 50.7                                                                                      | 51.6  | 53.4                                                                                         | 53.8  | 50.5    | 51.1  | 48.7       | 49.4  | 50.5    | 49.6  | 50.0    | 48.7  | 49.4  | 46.5  | 47.4  | 46.3  | 190.3 |
| 203.4                                                                                     | 42.5  | 43.2                                                                                      | 44.1  | 45.9                                                                                         | 46.3  | 43.0    | 43.7  | 41.4       | 41.9  | 42.8    | 42.1  | 42.5    | 40.8  | 41.2  | 39.2  | 39.7  | 38.1  | 203.4 |
| 216.5                                                                                     | 36.2  | 36.6                                                                                      | 37.5  | 39.5                                                                                         | 39.9  | 36.6    | 37.0  | 34.8       | 35.5  | 36.2    | 35.7  | 36.2    | 33.7  | 34.4  | 32.6  | 33.3  | 31.3  | 216.5 |
| 223.1                                                                                     | 33.4  | 33.8                                                                                      | 34.4  | 36.7                                                                                         | 37.0  | 33.8    | 34.3  | 32.1       | 32.6  | 33.3    | 32.8  | 33.3    | 30.7  | 31.3  | 29.9  | 30.4  | 28.3  | 223.1 |
| 229.7                                                                                     | 30.6  | 31.1                                                                                      | -     | 34.0                                                                                         | 34.4  | 31.1    | 31.5  | 29.3       | 29.8  | 30.4    | 30.0  | 30.4    | 27.8  | 28.2  | 27.1  | 27.6  | 25.4  | 229.7 |
| 239.5                                                                                     | 27.0  | 27.3                                                                                      | -     | 30.3                                                                                         | 30.6  | 27.4    | 27.7  | 25.7       | 26.0  | 26.7    | 26.3  | 26.8    | 23.8  | 24.3  | 23.3  | 23.7  | 21.2  | 239.5 |
| 242.8                                                                                     | 25.8  | 26.0                                                                                      | -     | 29.1                                                                                         | 29.3  | 26.2    | 26.5  | 24.5       | 24.7  | -       | 25.1  | 25.6    | 22.5  | 22.9  | 22.0  | 22.5  | 20.1  | 242.8 |
| 252.6                                                                                     | 22.6  | 22.9                                                                                      | -     | 26.0                                                                                         | 26.0  | 22.9    | 23.1  | 21.2       | 21.5  | -       | 21.8  | 22.2    | 19.0  | 19.4  | 18.9  | 19.2  | 16.6  | 252.6 |
| 255.9                                                                                     | 21.6  | -                                                                                         | -     | 24.9                                                                                         | -     | 21.8    | 22.0  | 20.1       | 20.5  | -       | 20.7  | 21.2    | 17.9  | 18.3  | 17.9  | 18.1  | 15.4  | 255.9 |
| 259.2                                                                                     | 20.6  | -                                                                                         | -     | 23.9                                                                                         | -     | 20.9    | 21.2  | 19.1       | 19.5  | -       | 19.8  | 20.1    | 16.9  | 17.3  | 16.8  | 17.1  | 14.3  | 259.2 |
| 265.7                                                                                     | 18.7  | -                                                                                         | -     | 22.0                                                                                         | -     | 19.0    | -     | 17.3       | 17.5  | -       | 17.9  | 18.1    | 14.9  | 15.2  | 14.8  | 15.2  | 12.2  | 265.7 |
| 269.0                                                                                     | -     | -                                                                                         | -     | -                                                                                            | -     | 18.1    | -     | 16.3       | 16.5  | -       | 17.0  | -       | 13.9  | 14.1  | 13.9  | 14.1  | 11.2  | 269.0 |
| 272.3                                                                                     | -     | -                                                                                         | -     | -                                                                                            | -     | 17.2    | -     | 15.4       | -     | -       | 16.2  | -       | 12.8  | -     | 13.1  | 13.2  | 10.3  | 272.3 |
| 275.6                                                                                     | -     | -                                                                                         | -     | -                                                                                            | -     | -       | -     | 14.6       | -     | -       | 15.4  | -       | 11.9  | -     | 12.2  | 12.3  | 9.3   | 275.6 |
| 278.9                                                                                     | -     | -                                                                                         | -     | -                                                                                            | -     | -       | -     | 13.8       | -     | -       | 14.6  | -       | 11.0  | -     | 11.4  | -     | 8.4   | 278.9 |
| 282.2                                                                                     | -     | -                                                                                         | -     | -                                                                                            | -     | -       | -     | 13.0       | -     | -       | 13.7  | -       | 10.1  | -     | 10.6  | -     | -     | 282.2 |
| 292.0                                                                                     | -     | -                                                                                         | -     | -                                                                                            | -     | -       | -     | -          | -     | -       | -     | -       | -     | -     | 8.4   | -     | -     | 292.0 |

99,200 lb

187,400 lb

275,600 lb

363,800 lb

408,000 lb

452,000 lb

496,100 lb

0 lb

66,100 lb

110,200 lb

|  +  39.4 ft |       |          |       |  27.6 ft |       |         |       |  32.2 ft/s |       |         |       | 360°    |       |         |       | ASME B30.5                                                                          |       |       |       |     |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|-------|-------------------------------------------------------------------------------------------|-------|---------|-------|---------------------------------------------------------------------------------------------|-------|---------|-------|---------|-------|---------|-------|-------------------------------------------------------------------------------------|-------|-------|-------|-----|--|
|  295.3 ft                                                                                    |       |          |       |                                                                                           |       |         |       | 305.1 ft                                                                                    |       |         |       |         |       |         |       | 315.0 ft                                                                            |       |       |       |     |  |
| LH+LF_1                                                                                                                                                                       |       | LH+LF_3  |       | LH+LF_4                                                                                   |       | LH+LF_3 |       | LH+LF_4                                                                                     |       | LH+LF_1 |       | LH+LF_3 |       | LH+LF_4 |       |                                                                                     |       |       |       |     |  |
|  39.4 ft                                                                                     |       |          |       |                                                                                           |       |         |       |                                                                                             |       |         |       |         |       |         |       |  |       |       |       |     |  |
| 15°                                                                                                                                                                           |       | 20°      |       | 30°                                                                                       |       | 15°     |       | 20°                                                                                         |       | 15°     |       | 20°     |       | 15°     |       | 20°                                                                                 |       | 15°   |       | 20° |  |
| ft                                                                                                                                                                            |       | 1,000 lb |       |                                                                                           |       |         |       |                                                                                             |       |         |       |         |       |         |       |                                                                                     |       | ft    |       |     |  |
| 45.9                                                                                                                                                                          | 277.8 | -        | -     | 299.8                                                                                     | -     | 352.7   | -     | 288.8                                                                                       | -     | 343.9   | -     | 246.9   | -     | -       | 275.6 | -                                                                                   | 339.5 | -     | 45.9  |     |  |
| 49.2                                                                                                                                                                          | 274.5 | 249.1    | -     | 295.4                                                                                     | 249.1 | 339.5   | 304.2 | 284.4                                                                                       | 249.1 | 330.7   | 304.2 | 243.6   | 224.9 | -       | 271.2 | 251.3                                                                               | 328.5 | -     | 49.2  |     |  |
| 52.5                                                                                                                                                                          | 271.2 | 246.9    | -     | 291.0                                                                                     | 242.5 | 326.3   | 297.6 | 280.0                                                                                       | 244.7 | 319.7   | 299.8 | 240.3   | 222.7 | -       | 266.8 | 244.7                                                                               | 315.3 | 299.8 | 52.5  |     |  |
| 55.8                                                                                                                                                                          | 265.7 | 243.6    | 177.5 | 280.0                                                                                     | 238.1 | 315.3   | 291.0 | 272.3                                                                                       | 239.2 | 308.6   | 293.2 | 238.1   | 219.9 | 178.6   | 262.4 | 240.3                                                                               | 304.2 | 293.2 | 55.8  |     |  |
| 59.1                                                                                                                                                                          | 260.1 | 240.3    | 175.3 | 269.0                                                                                     | 233.7 | 297.6   | 284.4 | 264.6                                                                                       | 233.7 | 293.2   | 286.6 | 235.9   | 217.2 | 176.4   | 257.9 | 235.9                                                                               | 286.6 | 286.6 | 59.1  |     |  |
| 65.6                                                                                                                                                                          | 240.3 | 233.7    | 169.8 | 242.5                                                                                     | 222.7 | 266.8   | 269.0 | 235.9                                                                                       | 224.9 | 260.1   | 264.6 | 229.3   | 211.6 | 170.9   | 233.7 | 227.1                                                                               | 255.7 | 260.1 | 65.6  |     |  |
| 72.2                                                                                                                                                                          | 217.2 | 219.4    | 165.3 | 219.4                                                                                     | 215.0 | 238.1   | 242.5 | 213.8                                                                                       | 216.1 | 233.7   | 235.9 | 209.4   | 206.1 | 166.4   | 210.5 | 212.7                                                                               | 229.3 | 231.5 | 72.2  |     |  |
| 78.7                                                                                                                                                                          | 197.3 | 198.4    | 160.9 | 199.5                                                                                     | 201.7 | 216.1   | 219.4 | 194.0                                                                                       | 196.2 | 211.6   | 213.8 | 190.7   | 192.9 | 162.0   | 191.8 | 194.0                                                                               | 207.2 | 210.5 | 78.7  |     |  |
| 85.3                                                                                                                                                                          | 179.7 | 181.9    | 156.5 | 181.9                                                                                     | 184.1 | 196.2   | 198.4 | 177.5                                                                                       | 178.6 | 191.8   | 194.0 | 173.1   | 175.3 | 157.6   | 174.2 | 176.4                                                                               | 188.5 | 190.7 | 85.3  |     |  |
| 91.9                                                                                                                                                                          | 164.2 | 166.4    | 152.1 | 166.4                                                                                     | 168.7 | 178.6   | 180.8 | 162.0                                                                                       | 164.2 | 175.3   | 177.5 | 158.7   | 160.9 | 154.3   | 159.8 | 162.0                                                                               | 170.9 | 174.2 | 91.9  |     |  |
| 98.4                                                                                                                                                                          | 151.0 | 152.1    | 148.8 | 153.2                                                                                     | 154.3 | 164.2   | 165.3 | 148.8                                                                                       | 151.0 | 159.8   | 162.0 | 145.5   | 147.7 | 149.9   | 146.6 | 148.8                                                                               | 156.5 | 158.7 | 98.4  |     |  |
| 111.5                                                                                                                                                                         | 127.9 | 130.1    | 132.3 | 131.2                                                                                     | 132.3 | 135.6   | 137.8 | 126.8                                                                                       | 127.9 | 134.5   | 135.6 | 123.5   | 124.6 | 127.9   | 124.6 | 125.7                                                                               | 131.2 | 133.4 | 111.5 |     |  |
| 124.7                                                                                                                                                                         | 108.2 | 109.6    | 111.3 | 110.0                                                                                     | 110.2 | 112.4   | 113.5 | 107.8                                                                                       | 109.1 | 110.2   | 112.4 | 106.0   | 107.4 | 109.8   | 107.1 | 108.2                                                                               | 109.3 | 110.2 | 124.7 |     |  |
| 137.8                                                                                                                                                                         | 90.8  | 91.9     | 93.7  | 92.8                                                                                      | 93.7  | 94.1    | 95.5  | 90.4                                                                                        | 91.5  | 91.9    | 93.3  | 89.1    | 89.9  | 91.9    | 89.7  | 90.8                                                                                | 89.9  | 91.5  | 137.8 |     |  |
| 150.9                                                                                                                                                                         | 76.3  | 77.4     | 79.1  | 78.5                                                                                      | 79.4  | 78.3    | 79.4  | 75.8                                                                                        | 76.7  | 75.8    | 77.2  | 74.1    | 75.2  | 77.2    | 75.0  | 75.8                                                                                | 73.9  | 75.2  | 150.9 |     |  |
| 164.0                                                                                                                                                                         | 63.9  | 65.0     | 66.6  | 66.1                                                                                      | 67.0  | 65.0    | 65.9  | 63.5                                                                                        | 64.4  | 62.6    | 63.7  | 61.7    | 62.6  | 64.4    | 62.6  | 63.5                                                                                | 60.6  | 61.7  | 164.0 |     |  |
| 177.2                                                                                                                                                                         | 53.8  | 54.5     | 56.0  | 56.0                                                                                      | 56.7  | 54.0    | 54.9  | 53.1                                                                                        | 54.0  | 51.6    | 52.5  | 51.4    | 52.2  | 53.8    | 52.2  | 53.1                                                                                | 49.6  | 50.5  | 177.2 |     |  |
| 190.3                                                                                                                                                                         | 45.0  | 45.6     | 47.0  | 47.2                                                                                      | 47.8  | 44.5    | 45.4  | 44.3                                                                                        | 45.0  | 42.1    | 43.0  | 42.5    | 43.4  | 44.8    | 43.4  | 44.1                                                                                | 40.1  | 41.0  | 190.3 |     |  |
| 203.4                                                                                                                                                                         | 37.5  | 38.1     | 39.2  | 39.7                                                                                      | 40.3  | 36.6    | 37.3  | 36.8                                                                                        | 37.5  | 34.2    | 34.8  | 35.1    | 35.7  | 37.0    | 35.9  | 36.6                                                                                | 32.2  | 32.8  | 203.4 |     |  |
| 216.5                                                                                                                                                                         | 31.1  | 31.5     | 32.6  | 33.3                                                                                      | 33.7  | 29.8    | 30.2  | 30.4                                                                                        | 30.9  | 27.1    | 27.8  | 28.7    | 29.1  | 30.2    | 29.3  | 30.0                                                                                | 25.1  | 25.8  | 216.5 |     |  |
| 229.7                                                                                                                                                                         | 25.4  | 26.0     | 26.7  | 27.6                                                                                      | 28.0  | 23.6    | 24.3  | 24.7                                                                                        | 25.1  | 21.2    | 21.8  | 22.9    | 23.4  | 24.5    | 23.8  | 24.3                                                                                | 19.0  | 19.6  | 229.7 |     |  |
| 242.8                                                                                                                                                                         | 20.5  | 20.9     | 21.6  | 22.7                                                                                      | 23.1  | 18.3    | 18.7  | 19.8                                                                                        | 20.3  | 15.9    | 16.3  | 17.9    | 18.5  | 19.2    | 18.7  | 19.2                                                                                | 13.7  | 14.3  | 242.8 |     |  |
| 252.6                                                                                                                                                                         | 17.2  | 17.6     | 18.1  | 19.4                                                                                      | 19.8  | 14.8    | 15.3  | 16.5                                                                                        | 16.8  | 12.2    | 12.7  | 14.7    | 15.0  | 15.7    | 15.4  | 15.9                                                                                | 10.2  | 10.7  | 252.6 |     |  |
| 255.9                                                                                                                                                                         | 16.1  | 16.5     | -     | 18.3                                                                                      | 18.7  | 13.7    | 14.1  | 15.4                                                                                        | 15.7  | 11.0    | 11.5  | 13.7    | 13.9  | 14.8    | 14.3  | 14.8                                                                                | 9.0   | 9.5   | 255.9 |     |  |
| 259.2                                                                                                                                                                         | 15.2  | 15.4     | -     | 17.4                                                                                      | 17.7  | 12.6    | 13.0  | 14.4                                                                                        | 14.8  | 10.0    | 10.4  | 12.7    | 13.0  | 13.7    | 13.4  | 13.8                                                                                | 7.9   | 8.4   | 259.2 |     |  |
| 265.7                                                                                                                                                                         | 13.3  | 13.5     | -     | 15.5                                                                                      | 15.8  | 10.5    | 10.9  | 12.5                                                                                        | 12.9  | 7.9     | 8.4   | 10.7    | 11.1  | 11.7    | 11.5  | 11.8                                                                                | -     | -     | 265.7 |     |  |
| 269.0                                                                                                                                                                         | 12.3  | 12.6     | -     | 14.6                                                                                      | 14.8  | 9.5     | 9.9   | 11.5                                                                                        | 11.9  | -       | -     | 9.7     | 10.1  | -       | 10.6  | 10.8                                                                                | -     | -     | 269.0 |     |  |
| 272.3                                                                                                                                                                         | 11.5  | 11.7     | -     | 13.7                                                                                      | 13.9  | 8.6     | 8.9   | 10.6                                                                                        | 11.0  | -       | -     | 8.8     | 9.1   | -       | 9.7   | 9.9                                                                                 | -     | -     | 272.3 |     |  |
| 275.6                                                                                                                                                                         | 10.6  | 10.8     | -     | 12.8                                                                                      | 13.0  | -       | 7.9   | 9.7                                                                                         | 10.1  | -       | -     | 7.9     | 8.2   | -       | 8.8   | 9.0                                                                                 | -     | -     | 275.6 |     |  |
| 278.9                                                                                                                                                                         | 9.7   | 9.9      | -     | 11.9                                                                                      | 12.1  | -       | -     | 8.8                                                                                         | 9.3   | -       | -     | -       | -     | -       | 7.9   | 8.2                                                                                 | -     | -     | 278.9 |     |  |
| 282.2                                                                                                                                                                         | 8.8   | 9.0      | -     | 11.0                                                                                      | 11.2  | -       | -     | 7.9                                                                                         | 8.4   | -       | -     | -       | -     | -       | -     | -                                                                                   | -     | -     | 282.2 |     |  |
| 285.4                                                                                                                                                                         | 8.2   | 8.4      | -     | 10.3                                                                                      | -     | -       | -     | -                                                                                           | -     | -       | -     | -       | -     | -       | -     | -                                                                                   | -     | -     | 285.4 |     |  |
| 295.3                                                                                                                                                                         | -     | -        | -     | 8.2                                                                                       | -     | -       | -     | -                                                                                           | -     | -       | -     | -       | -     | -       | -     | -                                                                                   | -     | -     | 295.3 |     |  |

 99,200 lb

187,400 lb

275,600 lb

363,800 lb

408,000 lb

452,000 lb

496,100 lb



0 lb

66,100 lb

110,200 lb



|  39.4 ft |          |         |       |  27.6 ft |       |         |       |  32.2 ft/s |       |         |       | 360°     |       | ASME B30.5 |       |       |
|-------------------------------------------------------------------------------------------|----------|---------|-------|-------------------------------------------------------------------------------------------|-------|---------|-------|---------------------------------------------------------------------------------------------|-------|---------|-------|----------|-------|------------|-------|-------|
| 324.8 ft                                                                                  |          |         |       | 334.6 ft                                                                                  |       |         |       |                                                                                             |       |         |       | 344.5 ft |       |            |       |       |
| LH+LF_3                                                                                   |          | LH+LF_4 |       | LH+LF_1                                                                                   |       | LH+LF_3 |       | LH+LF_4                                                                                     |       | LH+LF_3 |       | LH+LF_4  |       |            |       |       |
| 39.4 ft                                                                                   |          |         |       |                                                                                           |       |         |       |                                                                                             |       |         |       |          |       |            |       |       |
| 15°                                                                                       | 20°      | 15°     | 20°   | 15°                                                                                       | 20°   | 30°     | 15°   | 20°                                                                                         | 15°   | 20°     | 15°   | 20°      | 15°   | 20°        | 15°   | 20°   |
| ft                                                                                        | 1,000 lb |         |       |                                                                                           |       |         |       |                                                                                             |       |         |       |          |       |            | ft    |       |
| 49.2                                                                                      | 260.1    | -       | 319.7 | -                                                                                         | 227.1 | -       | -     | 253.5                                                                                       | -     | 308.6   | -     | 242.5    | -     | 284.4      | -     | 49.2  |
| 52.5                                                                                      | 255.7    | 246.9   | 306.4 | 299.8                                                                                     | 224.9 | 207.2   | -     | 249.1                                                                                       | 242.5 | 297.6   | 293.2 | 238.1    | 233.7 | 280.0      | 257.9 | 52.5  |
| 59.1                                                                                      | 246.9    | 235.9   | 282.2 | 277.8                                                                                     | 219.4 | 201.7   | 167.6 | 244.7                                                                                       | 238.1 | 275.6   | 273.4 | 233.7    | 229.3 | 271.2      | 249.1 | 59.1  |
| 65.6                                                                                      | 227.1    | 227.1   | 251.3 | 253.5                                                                                     | 213.8 | 195.1   | 163.1 | 222.7                                                                                       | 224.9 | 246.9   | 249.1 | 219.4    | 220.5 | 246.9      | 242.5 | 65.6  |
| 72.2                                                                                      | 205.0    | 208.3   | 224.9 | 227.1                                                                                     | 201.7 | 189.6   | 159.8 | 201.7                                                                                       | 203.9 | 220.5   | 224.9 | 197.3    | 199.5 | 220.5      | 224.9 | 72.2  |
| 78.7                                                                                      | 186.3    | 188.5   | 202.8 | 206.1                                                                                     | 183.0 | 184.1   | 155.4 | 183.0                                                                                       | 185.2 | 199.5   | 202.8 | 178.6    | 180.8 | 200.6      | 202.8 | 78.7  |
| 85.3                                                                                      | 169.8    | 172.0   | 184.1 | 186.3                                                                                     | 166.4 | 168.7   | 151.0 | 166.4                                                                                       | 168.7 | 180.8   | 183.0 | 163.1    | 165.3 | 181.9      | 184.1 | 85.3  |
| 91.9                                                                                      | 155.4    | 156.5   | 167.6 | 169.8                                                                                     | 152.1 | 153.2   | 146.6 | 152.1                                                                                       | 154.3 | 164.2   | 166.4 | 148.8    | 151.0 | 165.3      | 167.6 | 91.9  |
| 98.4                                                                                      | 142.2    | 144.4   | 152.1 | 154.3                                                                                     | 138.9 | 141.1   | 143.3 | 138.9                                                                                       | 141.1 | 149.9   | 152.1 | 135.6    | 137.8 | 151.0      | 153.2 | 98.4  |
| 111.5                                                                                     | 120.2    | 122.4   | 127.9 | 130.1                                                                                     | 117.9 | 119.0   | 122.4 | 117.9                                                                                       | 119.0 | 124.6   | 126.8 | 114.6    | 115.7 | 126.8      | 129.0 | 111.5 |
| 124.7                                                                                     | 103.2    | 104.5   | 107.4 | 108.9                                                                                     | 100.3 | 101.9   | 104.3 | 100.5                                                                                       | 101.9 | 105.6   | 107.1 | 97.7     | 99.0  | 107.8      | 109.3 | 124.7 |
| 137.8                                                                                     | 87.1     | 88.4    | 87.5  | 89.1                                                                                      | 85.5  | 86.9    | 89.3  | 85.5                                                                                        | 86.9  | 86.0    | 87.7  | 83.1     | 84.4  | 88.6       | 90.2  | 137.8 |
| 150.9                                                                                     | 72.1     | 73.2    | 71.4  | 72.8                                                                                      | 70.3  | 71.7    | 73.9  | 70.5                                                                                        | 71.7  | 69.9    | 71.4  | 68.6     | 69.9  | 72.5       | 73.9  | 150.9 |
| 164.0                                                                                     | 59.7     | 60.6    | 58.2  | 59.5                                                                                      | 58.0  | 59.1    | 61.1  | 58.2                                                                                        | 59.1  | 56.7    | 58.0  | 56.2     | 57.3  | 59.3       | 60.4  | 164.0 |
| 177.2                                                                                     | 49.4     | 50.3    | 47.2  | 48.3                                                                                      | 47.6  | 48.5    | 50.3  | 47.8                                                                                        | 48.7  | 45.6    | 46.7  | 45.9     | 46.7  | 48.3       | 49.4  | 177.2 |
| 190.3                                                                                     | 40.6     | 41.4    | 37.7  | 38.6                                                                                      | 38.8  | 39.7    | 41.2  | 39.0                                                                                        | 39.7  | 36.2    | 37.0  | 37.0     | 37.9  | 38.8       | 39.7  | 190.3 |
| 203.4                                                                                     | 33.1     | 33.7    | 29.5  | 30.4                                                                                      | 31.3  | 32.0    | 33.3  | 31.3                                                                                        | 32.2  | 28.0    | 28.9  | 29.3     | 30.2  | 30.6       | 31.5  | 203.4 |
| 216.5                                                                                     | 26.5     | 27.1    | 22.7  | 23.4                                                                                      | 24.7  | 25.4    | 26.7  | 24.9                                                                                        | 25.6  | 20.9    | 21.8  | 22.9     | 23.6  | 23.6       | 24.5  | 216.5 |
| 229.7                                                                                     | 20.7     | 21.4    | 16.5  | 17.2                                                                                      | 19.2  | 19.6    | 20.7  | 19.2                                                                                        | 19.8  | 14.8    | 15.7  | 17.2     | 17.9  | 17.6       | 18.3  | 229.7 |
| 242.8                                                                                     | 15.9     | 16.3    | 11.2  | 11.7                                                                                      | 14.1  | 14.6    | 15.4  | 14.1                                                                                        | 14.6  | 9.5     | 10.1  | 12.1     | 12.6  | 12.1       | 12.8  | 242.8 |
| 246.1                                                                                     | 14.7     | 15.2    | 9.9   | 10.5                                                                                      | 13.0  | 13.4    | 14.3  | 13.0                                                                                        | 13.4  | 8.2     | 8.8   | 10.9     | 11.5  | 10.9       | 11.6  | 246.1 |
| 249.3                                                                                     | 13.6     | 14.1    | 8.6   | 9.3                                                                                       | 11.9  | 12.3    | 13.2  | 11.9                                                                                        | 12.3  | -       | -     | 9.8      | 10.4  | 9.8        | 10.4  | 249.3 |
| 252.6                                                                                     | 12.4     | 13.0    | -     | 8.2                                                                                       | 10.8  | 11.2    | 12.1  | 10.8                                                                                        | 11.2  | -       | -     | 8.6      | 9.3   | 8.6        | 9.1   | 252.6 |
| 255.9                                                                                     | 11.2     | 11.9    | -     | -                                                                                         | 9.7   | 10.1    | 11.0  | 9.7                                                                                         | 10.1  | -       | -     | -        | 8.2   | -          | 7.9   | 255.9 |
| 259.2                                                                                     | 10.3     | 10.9    | -     | -                                                                                         | 8.6   | 9.1     | 9.9   | 8.6                                                                                         | 9.1   | -       | -     | -        | -     | -          | -     | 259.2 |
| 262.5                                                                                     | 9.3      | 9.8     | -     | -                                                                                         | -     | 8.2     | 8.8   | -                                                                                           | 8.2   | -       | -     | -        | -     | -          | -     | 262.5 |
| 265.7                                                                                     | 8.4      | 8.8     | -     | -                                                                                         | -     | -       | 7.7   | -                                                                                           | -     | -       | -     | -        | -     | -          | -     | 265.7 |
| 269.0                                                                                     | -        | 7.7     | -     | -                                                                                         | -     | -       | -     | -                                                                                           | -     | -       | -     | -        | -     | -          | -     | 269.0 |

 99,200 lb

187,400 lb

275,600 lb

363,800 lb

408,000 lb

452,000 lb

496,100 lb

 0 lb

66,100 lb

110,200 lb

| <div>  39.4 ft <div>  27.6 ft <div>  32.2 ft/s 360° ASME B30.5 </div> </div> </div> |          |       |       |       |       |       |       |       |       |       |       |       |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <div> <div> <div>354.3 ft</div> <div>LH+LF_1</div> <div>LH+LF_3</div> <div>LH+LF_4</div> <div>LH+LF_3</div> <div>LH+LF_1</div> </div> <div>364.2 ft</div> <div>374.0 ft</div> </div>                                                                                                                                                   |          |       |       |       |       |       |       |       |       |       |       |       |       |
| <div> <div>39.4 ft</div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>30°</div> </div>                                                                                                                    |          |       |       |       |       |       |       |       |       |       |       |       |       |
| ft                                                                                                                                                                                                                                                                                                                                     | 1,000 lb |       |       |       |       |       |       |       |       |       |       |       | ft    |
| 49.2                                                                                                                                                                                                                                                                                                                                   | 212.7    | -     | -     | 231.5 | -     | 273.4 | -     | -     | -     | -     | -     | -     | 49.2  |
| 52.5                                                                                                                                                                                                                                                                                                                                   | 210.5    | 194.0 | -     | 229.3 | 222.7 | 269.0 | -     | 219.4 | -     | 196.2 | -     | -     | 52.5  |
| 55.8                                                                                                                                                                                                                                                                                                                                   | 207.8    | 191.3 | -     | 227.1 | 221.0 | 264.6 | 249.1 | 216.6 | 212.7 | 193.5 | 185.2 | -     | 55.8  |
| 59.1                                                                                                                                                                                                                                                                                                                                   | 205.0    | 188.5 | 157.6 | 224.9 | 219.4 | 260.1 | 244.7 | 213.8 | 210.5 | 190.7 | 183.0 | -     | 59.1  |
| 62.3                                                                                                                                                                                                                                                                                                                                   | 202.3    | 186.3 | 156.0 | 219.9 | 217.2 | 255.7 | 242.5 | 211.1 | 208.9 | 188.5 | 180.8 | 152.1 | 62.3  |
| 65.6                                                                                                                                                                                                                                                                                                                                   | 199.5    | 184.1 | 154.3 | 215.0 | 215.0 | 242.5 | 238.1 | 208.3 | 207.2 | 186.3 | 178.6 | 151.0 | 65.6  |
| 72.2                                                                                                                                                                                                                                                                                                                                   | 194.0    | 178.6 | 149.9 | 192.9 | 196.2 | 218.3 | 220.5 | 189.6 | 191.8 | 180.8 | 174.2 | 147.7 | 72.2  |
| 78.7                                                                                                                                                                                                                                                                                                                                   | 175.3    | 173.1 | 145.5 | 175.3 | 177.5 | 197.3 | 199.5 | 170.9 | 173.1 | 167.6 | 169.8 | 144.4 | 78.7  |
| 85.3                                                                                                                                                                                                                                                                                                                                   | 158.7    | 160.9 | 142.2 | 158.7 | 160.9 | 178.6 | 180.8 | 155.4 | 157.6 | 152.1 | 154.3 | 141.1 | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                                   | 145.5    | 147.7 | 137.8 | 145.5 | 146.6 | 162.0 | 164.2 | 141.1 | 143.3 | 138.9 | 140.0 | 137.8 | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                   | 132.3    | 134.5 | 134.5 | 132.3 | 134.5 | 147.7 | 149.9 | 129.0 | 131.2 | 126.8 | 127.9 | 132.3 | 98.4  |
| 111.5                                                                                                                                                                                                                                                                                                                                  | 111.3    | 113.5 | 116.8 | 111.3 | 113.5 | 124.6 | 125.7 | 108.9 | 110.2 | 106.0 | 107.8 | 110.2 | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                  | 95.0     | 96.3  | 99.2  | 94.6  | 96.1  | 105.2 | 106.9 | 91.7  | 93.3  | 89.3  | 90.8  | 93.7  | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                  | 80.7     | 82.0  | 84.4  | 80.5  | 81.8  | 87.1  | 88.6  | 77.6  | 78.9  | 75.2  | 76.5  | 79.1  | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                                  | 67.0     | 68.3  | 70.5  | 66.8  | 68.1  | 71.0  | 72.3  | 64.8  | 66.1  | 63.3  | 64.6  | 66.8  | 150.9 |
| 164.0                                                                                                                                                                                                                                                                                                                                  | 54.5     | 55.8  | 57.8  | 54.2  | 55.3  | 57.8  | 58.9  | 52.5  | 53.6  | 50.7  | 52.0  | 54.2  | 164.0 |
| 177.2                                                                                                                                                                                                                                                                                                                                  | 44.1     | 45.2  | 47.0  | 43.9  | 45.0  | 46.5  | 47.6  | 41.9  | 43.0  | 40.3  | 41.4  | 43.4  | 177.2 |
| 190.3                                                                                                                                                                                                                                                                                                                                  | 35.3     | 36.2  | 37.9  | 35.1  | 35.9  | 37.0  | 38.1  | 33.1  | 34.0  | 31.5  | 32.4  | 34.2  | 190.3 |
| 203.4                                                                                                                                                                                                                                                                                                                                  | 27.8     | 28.7  | 30.0  | 27.3  | 28.2  | 28.9  | 30.0  | 25.4  | 26.2  | 23.8  | 24.7  | 26.2  | 203.4 |
| 216.5                                                                                                                                                                                                                                                                                                                                  | 21.2     | 21.8  | 23.1  | 20.9  | 21.6  | 22.0  | 22.7  | 18.7  | 19.6  | 17.2  | 18.1  | 19.4  | 216.5 |
| 229.7                                                                                                                                                                                                                                                                                                                                  | 15.4     | 16.1  | 17.2  | 15.2  | 15.9  | 15.9  | 16.5  | 13.0  | 13.7  | 11.5  | 12.1  | 13.4  | 229.7 |
| 236.2                                                                                                                                                                                                                                                                                                                                  | 12.9     | 13.6  | 14.6  | 12.7  | 13.2  | 13.0  | 13.7  | 10.5  | 11.1  | 8.8   | 9.5   | 10.8  | 236.2 |
| 239.5                                                                                                                                                                                                                                                                                                                                  | 11.6     | 12.3  | 13.2  | 11.4  | 11.9  | 11.7  | 12.3  | 9.2   | 9.9   | -     | 8.2   | 9.5   | 239.5 |
| 242.8                                                                                                                                                                                                                                                                                                                                  | 10.4     | 11.0  | 11.9  | 10.1  | 10.6  | 10.4  | 11.0  | 7.9   | 8.6   | -     | -     | 8.2   | 242.8 |
| 249.3                                                                                                                                                                                                                                                                                                                                  | 8.2      | 8.6   | 9.6   | 7.7   | 8.4   | 7.9   | 8.6   | -     | -     | -     | -     | -     | 249.3 |
| 252.6                                                                                                                                                                                                                                                                                                                                  | -        | -     | 8.4   | -     | -     | -     | -     | -     | -     | -     | -     | -     | 252.6 |

99,200 lb

187,400 lb

275,600 lb

363,800 lb

408,000 lb

452,000 lb

496,100 lb

0 lb

66,100 lb

110,200 lb



| <div>  59.0 ft <div>  27.6 ft <div>  32.2 ft/s <div> 360° <div>ASME B30.5</div> </div> </div> </div> </div> |          |       |       |       |       |       |       |       |       |       |       |       |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <div> <div> 275.6 ft 285.5 ft 295.3 ft 305.1 ft 315.0 ft 324.8 ft </div> <div>LH+LF_4</div> <div>59.0 ft</div> <div> 15° 20° 15° 20° 15° 20° 15° 20° 15° 20° 15° 20° </div> </div>                                                                                                                                                                             |          |       |       |       |       |       |       |       |       |       |       |       |       |
| ft                                                                                                                                                                                                                                                                                                                                                             | 1,000 lb |       |       |       |       |       |       |       |       |       |       |       | ft    |
| 49.2                                                                                                                                                                                                                                                                                                                                                           | 277.8    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 49.2  |
| 52.5                                                                                                                                                                                                                                                                                                                                                           | 271.2    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 52.5  |
| 55.8                                                                                                                                                                                                                                                                                                                                                           | 262.4    | 202.8 | 264.6 | 203.9 | 266.8 | -     | 266.8 | -     | 269.0 | -     | 266.8 | -     | 55.8  |
| 59.1                                                                                                                                                                                                                                                                                                                                                           | 255.7    | 198.4 | 257.9 | 199.5 | 260.1 | 199.5 | 260.1 | 200.6 | 262.4 | 201.7 | 257.9 | 201.7 | 59.1  |
| 65.6                                                                                                                                                                                                                                                                                                                                                           | 242.5    | 190.7 | 244.7 | 191.8 | 246.9 | 191.8 | 249.1 | 192.9 | 249.1 | 194.0 | 242.5 | 195.1 | 65.6  |
| 72.2                                                                                                                                                                                                                                                                                                                                                           | 231.5    | 183.0 | 233.7 | 184.1 | 235.9 | 185.2 | 233.7 | 186.3 | 229.3 | 187.4 | 224.9 | 188.5 | 72.2  |
| 78.7                                                                                                                                                                                                                                                                                                                                                           | 220.5    | 176.4 | 220.5 | 177.5 | 217.2 | 178.6 | 212.7 | 179.7 | 208.3 | 180.8 | 203.9 | 181.9 | 78.7  |
| 85.3                                                                                                                                                                                                                                                                                                                                                           | 205.0    | 170.9 | 200.6 | 172.0 | 197.3 | 173.1 | 192.9 | 174.2 | 189.6 | 174.2 | 185.2 | 175.3 | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                                                           | 187.4    | 165.3 | 183.0 | 166.4 | 180.8 | 167.6 | 176.4 | 167.6 | 173.1 | 167.6 | 168.7 | 167.6 | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                                           | 172.0    | 159.8 | 168.7 | 160.9 | 165.3 | 162.0 | 160.9 | 162.0 | 157.6 | 160.9 | 154.3 | 157.6 | 98.4  |
| 111.5                                                                                                                                                                                                                                                                                                                                                          | 143.3    | 145.5 | 142.2 | 144.4 | 140.0 | 142.2 | 136.7 | 138.9 | 133.4 | 135.6 | 130.1 | 132.3 | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                                          | 119.0    | 121.3 | 117.9 | 120.2 | 116.8 | 119.0 | 114.6 | 116.8 | 113.5 | 115.7 | 110.2 | 112.4 | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                                          | 101.2    | 102.7 | 99.4  | 101.0 | 98.1  | 99.9  | 96.3  | 98.3  | 94.8  | 96.8  | 92.8  | 95.0  | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                                                          | 86.0     | 87.5  | 84.0  | 85.8  | 82.5  | 84.2  | 80.2  | 82.2  | 78.5  | 80.5  | 76.3  | 78.3  | 150.9 |
| 164.0                                                                                                                                                                                                                                                                                                                                                          | 72.8     | 74.3  | 70.5  | 72.1  | 69.0  | 70.5  | 66.8  | 68.6  | 65.0  | 66.8  | 62.8  | 64.6  | 164.0 |
| 177.2                                                                                                                                                                                                                                                                                                                                                          | 61.5     | 62.8  | 59.3  | 60.6  | 57.8  | 59.3  | 55.6  | 57.1  | 53.8  | 55.3  | 51.4  | 53.1  | 177.2 |
| 190.3                                                                                                                                                                                                                                                                                                                                                          | 52.0     | 53.1  | 49.8  | 50.9  | 48.3  | 49.6  | 46.1  | 47.4  | 44.1  | 45.4  | 41.9  | 43.2  | 190.3 |
| 203.4                                                                                                                                                                                                                                                                                                                                                          | 43.9     | 45.0  | 41.7  | 42.8  | 40.1  | 41.2  | 37.7  | 39.0  | 35.9  | 37.0  | 33.5  | 34.8  | 203.4 |
| 216.5                                                                                                                                                                                                                                                                                                                                                          | 36.8     | 37.7  | 34.6  | 35.5  | 32.8  | 34.0  | 30.6  | 31.7  | 28.7  | 29.8  | 26.2  | 27.6  | 216.5 |
| 229.7                                                                                                                                                                                                                                                                                                                                                          | 30.6     | 31.5  | 28.2  | 29.1  | 26.7  | 27.6  | 24.5  | 25.4  | 22.5  | 23.4  | 20.1  | 21.2  | 229.7 |
| 242.8                                                                                                                                                                                                                                                                                                                                                          | 25.1     | 25.8  | 22.9  | 23.6  | 21.2  | 22.0  | 19.0  | 19.6  | 17.0  | 17.9  | 14.6  | 15.4  | 242.8 |
| 255.9                                                                                                                                                                                                                                                                                                                                                          | 20.3     | 20.9  | 18.1  | 18.7  | 16.3  | 17.0  | 14.1  | 14.8  | 12.1  | 12.8  | 9.5   | 10.4  | 255.9 |
| 259.2                                                                                                                                                                                                                                                                                                                                                          | 19.2     | 19.8  | 17.0  | 17.6  | 15.2  | 15.9  | 12.8  | 13.7  | 10.9  | 11.7  | 8.4   | 9.3   | 259.2 |
| 262.5                                                                                                                                                                                                                                                                                                                                                          | 18.2     | 18.7  | 15.9  | 16.5  | 14.1  | 14.8  | 11.8  | 12.6  | 9.8   | 10.6  | -     | 8.2   | 262.5 |
| 265.7                                                                                                                                                                                                                                                                                                                                                          | 17.1     | 17.6  | 14.8  | 15.4  | 13.0  | 13.7  | 10.7  | 11.5  | 8.6   | 9.5   | -     | -     | 265.7 |
| 269.0                                                                                                                                                                                                                                                                                                                                                          | 16.1     | 16.5  | 13.7  | 14.3  | 12.1  | 12.6  | 9.7   | 10.4  | -     | 8.4   | -     | -     | 269.0 |
| 272.3                                                                                                                                                                                                                                                                                                                                                          | 15.2     | 15.5  | 12.8  | 13.2  | 11.1  | 11.6  | 8.6   | 9.4   | -     | -     | -     | -     | 272.3 |
| 275.6                                                                                                                                                                                                                                                                                                                                                          | 14.2     | 14.6  | 11.8  | 12.3  | 10.1  | 10.6  | -     | 8.4   | -     | -     | -     | -     | 275.6 |
| 282.2                                                                                                                                                                                                                                                                                                                                                          | 12.3     | 12.6  | 9.9   | 10.4  | 8.2   | 8.6   | -     | -     | -     | -     | -     | -     | 282.2 |
| 285.4                                                                                                                                                                                                                                                                                                                                                          | 11.5     | 11.7  | 9.0   | 9.4   | -     | 7.7   | -     | -     | -     | -     | -     | -     | 285.4 |
| 288.7                                                                                                                                                                                                                                                                                                                                                          | 10.6     | 10.8  | 8.2   | 8.4   | -     | -     | -     | -     | -     | -     | -     | -     | 288.7 |
| 295.3                                                                                                                                                                                                                                                                                                                                                          | 8.8      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 295.3 |
| 298.6                                                                                                                                                                                                                                                                                                                                                          | 7.9      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 298.6 |


99,200 lb
187,400 lb
275,600 lb
363,800 lb
408,000 lb
452,000 lb
496,100 lb


0 lb
66,100 lb
110,200 lb

|  +  78.7 ft |       |          |      |  27.6 ft |       |          |       |  32.2 ft/s |      |          |       | 360° |       |       |      | ASME B30.5 |       |      |                                                                                     |                                                                                     |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|------|-------------------------------------------------------------------------------------------|-------|----------|-------|---------------------------------------------------------------------------------------------|------|----------|-------|------|-------|-------|------|------------|-------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|
|  157.5 ft                                                                                    |       | 177.2 ft |      | 196.9 ft                                                                                  |       | 216.5 ft |       | 236.2 ft                                                                                    |      | 255.9 ft |       |      |       |       |      |            |       |      |                                                                                     |                                                                                     |  |
| LH+LF-1                                                                                                                                                                       |       |          |      |                                                                                           |       |          |       |                                                                                             |      |          |       |      |       |       |      |            |       |      |                                                                                     |                                                                                     |  |
|  78.7 ft                                                                                     |       |          |      |                                                                                           |       |          |       |                                                                                             |      |          |       |      |       |       |      |            |       |      |                                                                                     |  |  |
|  15°                                                                                         |       | 20°      | 30°  | 15°                                                                                       | 20°   | 30°      | 15°   | 20°                                                                                         | 30°  | 15°      | 20°   | 30°  | 15°   | 20°   | 30°  | 15°        | 20°   | 30°  |  |                                                                                     |  |
| ft                                                                                                                                                                            |       | 1,000 lb |      |                                                                                           |       |          |       |                                                                                             |      |          |       |      |       |       |      |            |       |      |                                                                                     | ft                                                                                  |  |
| 45.9                                                                                                                                                                          | 190.7 | -        | -    | -                                                                                         | -     | -        | -     | -                                                                                           | -    | -        | -     | -    | -     | -     | -    | -          | -     | -    | 45.9                                                                                |                                                                                     |  |
| 49.2                                                                                                                                                                          | 183.5 | -        | -    | 187.4                                                                                     | -     | -        | 190.7 | -                                                                                           | -    | -        | -     | -    | -     | -     | -    | -          | -     | -    | 49.2                                                                                |                                                                                     |  |
| 52.5                                                                                                                                                                          | 176.4 | 140.0    | -    | 180.8                                                                                     | -     | -        | 184.1 | -                                                                                           | -    | 186.3    | -     | -    | 187.4 | -     | -    | -          | -     | -    | 52.5                                                                                |                                                                                     |  |
| 55.8                                                                                                                                                                          | 169.8 | 135.6    | -    | 174.2                                                                                     | 137.8 | -        | 178.0 | 140.0                                                                                       | -    | 180.8    | -     | -    | 181.9 | -     | -    | 177.5      | -     | -    | 55.8                                                                                |                                                                                     |  |
| 59.1                                                                                                                                                                          | 163.1 | 131.2    | -    | 167.6                                                                                     | 133.4 | -        | 172.0 | 135.6                                                                                       | -    | 175.3    | 137.8 | -    | 176.4 | 138.9 | -    | 174.2      | -     | -    | 59.1                                                                                |                                                                                     |  |
| 62.3                                                                                                                                                                          | 157.6 | 127.3    | -    | 162.6                                                                                     | 130.1 | -        | 167.0 | 132.3                                                                                       | -    | 170.3    | 134.5 | -    | 172.0 | 135.6 | -    | 170.3      | 136.7 | -    | 62.3                                                                                |                                                                                     |  |
| 65.6                                                                                                                                                                          | 152.1 | 123.5    | 84.4 | 157.6                                                                                     | 126.8 | 84.9     | 162.0 | 129.0                                                                                       | -    | 165.3    | 131.2 | -    | 167.6 | 132.3 | -    | 166.4      | 133.4 | -    | 65.6                                                                                |                                                                                     |  |
| 68.9                                                                                                                                                                          | 147.2 | 120.2    | 82.7 | 152.7                                                                                     | 123.5 | 83.2     | 157.1 | 125.7                                                                                       | 83.8 | 160.9    | 127.9 | 84.0 | 163.1 | 129.5 | -    | 162.6      | 130.6 | -    | 68.9                                                                                |                                                                                     |  |
| 72.2                                                                                                                                                                          | 142.2 | 116.8    | 80.9 | 147.7                                                                                     | 120.2 | 81.6     | 152.1 | 122.4                                                                                       | 82.0 | 156.5    | 124.6 | 82.5 | 158.7 | 126.8 | 82.7 | 158.7      | 127.9 | 82.9 | 72.2                                                                                |                                                                                     |  |
| 78.7                                                                                                                                                                          | 134.5 | 110.2    | 77.6 | 138.9                                                                                     | 113.5 | 78.5     | 143.3 | 116.8                                                                                       | 79.1 | 147.7    | 119.0 | 79.6 | 152.1 | 121.3 | 80.0 | 152.1      | 122.4 | 80.2 | 78.7                                                                                |                                                                                     |  |
| 85.3                                                                                                                                                                          | 126.8 | 105.4    | 74.3 | 131.2                                                                                     | 108.7 | 75.6     | 136.7 | 111.3                                                                                       | 76.5 | 141.1    | 113.5 | 77.2 | 144.4 | 115.7 | 77.6 | 145.5      | 117.9 | 78.0 | 85.3                                                                                |                                                                                     |  |
| 91.9                                                                                                                                                                          | 120.2 | 100.3    | 71.4 | 124.6                                                                                     | 103.6 | 73.0     | 129.0 | 106.7                                                                                       | 73.9 | 133.4    | 109.3 | 74.7 | 137.8 | 111.3 | 75.2 | 138.9      | 113.5 | 75.8 | 91.9                                                                                |                                                                                     |  |
| 98.4                                                                                                                                                                          | 113.5 | 95.9     | 68.8 | 119.0                                                                                     | 99.2  | 70.3     | 123.5 | 102.3                                                                                       | 71.4 | 127.9    | 104.9 | 72.3 | 131.2 | 107.6 | 73.0 | 133.4      | 109.8 | 73.6 | 98.4                                                                                |                                                                                     |  |
| 111.5                                                                                                                                                                         | 103.6 | 88.0     | 64.2 | 108.5                                                                                     | 91.3  | 65.7     | 112.4 | 94.4                                                                                        | 67.2 | 116.8    | 97.2  | 68.1 | 121.3 | 99.9  | 69.0 | 123.5      | 102.3 | 69.9 | 111.5                                                                               |                                                                                     |  |
| 124.7                                                                                                                                                                         | 95.0  | 81.4     | 60.2 | 99.6                                                                                      | 84.7  | 61.9     | 104.1 | 87.7                                                                                        | 63.3 | 108.2    | 90.6  | 64.6 | 111.3 | 93.3  | 65.5 | 113.5      | 95.7  | 66.4 | 124.7                                                                               |                                                                                     |  |
| 137.8                                                                                                                                                                         | 87.7  | 75.8     | 56.9 | 92.2                                                                                      | 78.9  | 58.4     | 96.3  | 82.0                                                                                        | 60.0 | 100.5    | 84.9  | 61.3 | 104.3 | 87.3  | 62.4 | 101.9      | 89.7  | 63.3 | 137.8                                                                               |                                                                                     |  |
| 150.9                                                                                                                                                                         | 81.6  | 71.0     | 54.0 | 85.8                                                                                      | 74.1  | 55.6     | 89.9  | 76.9                                                                                        | 57.1 | 91.9     | 79.8  | 58.4 | 90.2  | 82.5  | 59.7 | 87.5       | 84.7  | 60.6 | 150.9                                                                               |                                                                                     |  |
| 164.0                                                                                                                                                                         | 76.3  | 66.8     | 51.6 | 80.2                                                                                      | 69.9  | 53.1     | 83.1  | 72.8                                                                                        | 54.5 | 80.2     | 75.4  | 55.8 | 78.5  | 77.8  | 57.1 | 75.6       | 76.9  | 58.2 | 164.0                                                                               |                                                                                     |  |
| 177.2                                                                                                                                                                         | 71.9  | 63.5     | 49.6 | 75.6                                                                                      | 66.4  | 50.9     | 73.2  | 69.0                                                                                        | 52.2 | 70.5     | 71.4  | 53.6 | 68.6  | 69.7  | 54.9 | 65.5       | 67.0  | 56.0 | 177.2                                                                               |                                                                                     |  |
| 190.3                                                                                                                                                                         | 67.9  | 60.6     | 48.1 | 67.7                                                                                      | 63.1  | 49.2     | 65.0  | 65.7                                                                                        | 50.5 | 62.2     | 63.1  | 51.8 | 60.0  | 61.1  | 52.9 | 56.4       | 57.8  | 54.0 | 190.3                                                                               |                                                                                     |  |
| 193.6                                                                                                                                                                         | 67.1  | 60.0     | 47.6 | 65.9                                                                                      | 62.4  | 48.7     | 63.2  | 63.9                                                                                        | 50.1 | 60.3     | 61.2  | 51.4 | 58.0  | 59.1  | 52.5 | 54.5       | 55.8  | 53.6 | 193.6                                                                               |                                                                                     |  |
| 203.4                                                                                                                                                                         | 63.1  | 58.2     | -    | 60.6                                                                                      | 60.4  | 47.8     | 57.8  | 58.4                                                                                        | 48.9 | 54.7     | 55.6  | 50.0 | 52.2  | 53.1  | 51.1 | 48.7       | 49.8  | 52.0 | 203.4                                                                               |                                                                                     |  |
| 206.7                                                                                                                                                                         | 61.6  | 57.7     | -    | 59.1                                                                                      | 59.0  | 47.4     | 56.2  | 56.8                                                                                        | 48.6 | 52.9     | 53.8  | 49.7 | 50.5  | 51.4  | 50.7 | 47.1       | 48.1  | 50.2 | 206.7                                                                               |                                                                                     |  |
| 210.0                                                                                                                                                                         | 60.1  | 57.1     | -    | 57.5                                                                                      | 57.7  | -        | 54.6  | 55.2                                                                                        | 48.3 | 51.1     | 52.0  | 49.3 | 48.8  | 49.7  | 50.3 | 45.4       | 46.4  | 48.4 | 210.0                                                                               |                                                                                     |  |
| 216.5                                                                                                                                                                         | 57.1  | -        | -    | 54.5                                                                                      | 54.9  | -        | 51.4  | 52.0                                                                                        | 47.6 | 47.8     | 48.7  | 48.5 | 45.4  | 46.3  | 47.8 | 42.1       | 43.0  | 44.8 | 216.5                                                                               |                                                                                     |  |
| 219.8                                                                                                                                                                         | -     | -        | -    | 53.0                                                                                      | 53.4  | -        | 49.8  | 50.5                                                                                        | 47.4 | 46.4     | 47.2  | 47.3 | 44.0  | 44.8  | 46.3 | 40.6       | 41.5  | 43.2 | 219.8                                                                               |                                                                                     |  |
| 226.4                                                                                                                                                                         | -     | -        | -    | 50.2                                                                                      | 50.5  | -        | 47.0  | 47.5                                                                                        | -    | 43.5     | 44.3  | 45.0 | 41.1  | 41.8  | 43.2 | 37.6       | 38.5  | 40.1 | 226.4                                                                               |                                                                                     |  |
| 229.7                                                                                                                                                                         | -     | -        | -    | 48.7                                                                                      | -     | -        | 45.6  | 46.1                                                                                        | -    | 42.1     | 42.8  | 43.9 | 39.7  | 40.3  | 41.7 | 36.2       | 37.0  | 38.6 | 229.7                                                                               |                                                                                     |  |
| 236.2                                                                                                                                                                         | -     | -        | -    | 46.3                                                                                      | -     | -        | 43.1  | 43.4                                                                                        | -    | 39.6     | 40.1  | 41.0 | 37.1  | 37.7  | 38.9 | 33.6       | 34.4  | 35.7 | 236.2                                                                               |                                                                                     |  |
| 242.8                                                                                                                                                                         | -     | -        | -    | -                                                                                         | -     | -        | 40.6  | 40.8                                                                                        | -    | 37.0     | 37.5  | -    | 34.6  | 35.1  | 36.2 | 31.1       | 31.7  | 33.1 | 242.8                                                                               |                                                                                     |  |
| 249.3                                                                                                                                                                         | -     | -        | -    | -                                                                                         | -     | -        | 38.2  | -                                                                                           | -    | 34.7     | 35.2  | -    | 32.3  | 32.8  | 33.7 | 28.8       | 29.4  | 30.6 | 249.3                                                                               |                                                                                     |  |
| 252.6                                                                                                                                                                         | -     | -        | -    | -                                                                                         | -     | -        | 37.0  | -                                                                                           | -    | 33.5     | 34.0  | -    | 31.1  | 31.6  | -    | 27.6       | 28.3  | 29.4 | 252.6                                                                               |                                                                                     |  |
| 255.9                                                                                                                                                                         | -     | -        | -    | -                                                                                         | -     | -        | -     | -                                                                                           | -    | 32.4     | 32.8  | -    | 30.0  | 30.4  | -    | 26.5       | 27.1  | 28.2 | 255.9                                                                               |                                                                                     |  |
| 259.2                                                                                                                                                                         | -     | -        | -    | -                                                                                         | -     | -        | -     | -                                                                                           | -    | 31.4     | 31.7  | -    | 28.9  | 29.4  | -    | 25.4       | 26.1  | 27.1 | 259.2                                                                               |                                                                                     |  |
| 262.5                                                                                                                                                                         | -     | -        | -    | -                                                                                         | -     | -        | -     | -                                                                                           | -    | 30.4     | -     | -    | 27.9  | 28.3  | -    | 24.4       | 25.0  | 26.0 | 262.5                                                                               |                                                                                     |  |
| 269.0                                                                                                                                                                         | -     | -        | -    | -                                                                                         | -     | -        | -     | -                                                                                           | -    | 28.4     | -     | -    | 25.8  | 26.2  | -    | 22.3       | 22.9  | -    | 269.0                                                                               |                                                                                     |  |
| 275.6                                                                                                                                                                         | -     | -        | -    | -                                                                                         | -     | -        | -     | -                                                                                           | -    | -        | -     | -    | 24.0  | 24.5  | -    | 20.4       | 21.1  | -    | 275.6                                                                               |                                                                                     |  |
| 282.2                                                                                                                                                                         | -     | -        | -    | -                                                                                         | -     | -        | -     | -                                                                                           | -    | -        | -     | -    | 22.3  | -     | -    | 18.5       | 19.2  | -    | 282.2                                                                               |                                                                                     |  |
| 285.4                                                                                                                                                                         | -     | -        | -    | -                                                                                         | -     | -        | -     | -                                                                                           | -    | -        | -     | -    | 21.4  | -     | -    | 17.7       | 18.3  | -    | 285.4                                                                               |                                                                                     |  |
| 292.0                                                                                                                                                                         | -     | -        | -    | -                                                                                         | -     | -        | -     | -                                                                                           | -    | -        | -     | -    | -     | -     | -    | 16.0       | 16.5  | -    | 292.0                                                                               |                                                                                     |  |
| 295.3                                                                                                                                                                         | -     | -        | -    | -                                                                                         | -     | -        | -     | -                                                                                           | -    | -        | -     | -    | -     | -     | -    | 15.2       | -     | -    | 295.3                                                                               |                                                                                     |  |
| 301.8                                                                                                                                                                         | -     | -        | -    | -                                                                                         | -     | -        | -     | -                                                                                           | -    | -        | -     | -    | -     | -     | -    | 13.7       | -     | -    | 301.8                                                                               |                                                                                     |  |

 99,200 lb

187,400 lb

275,600 lb

363,800 lb

408,000 lb

452,000 lb

496,100 lb



0 lb

66,100 lb

110,200 lb

| <div>   78.7 ft </div> <div>  27.6 ft </div> <div>  32.2 ft/s </div> <div> 360° </div> <div> ASME B30.5 </div> |          |       |      |       |       |      |       |       |      |       |       |      |       |       |      |   |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|---|-------|
| <div>  275.6 ft </div> <div> 295.3 ft </div> <div> 315.0 ft </div> <div> 334.6 ft </div> <div> 354.3 ft </div>                                                                                                                                                                                                                                                    |          |       |      |       |       |      |       |       |      |       |       |      |       |       |      |   |       |
| LH+LF.1                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |       |      |       |       |      |       |       |      |       |       |      |       |       |      |   |       |
| 78.7 ft                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |       |      |       |       |      |       |       |      |       |       |      |       |       |      |   |       |
| <div>  15° </div> <div> 20° </div> <div> 30° </div> <div> 15° </div> <div> 20° </div> <div> 30° </div> <div> 15° </div> <div> 20° </div> <div> 30° </div> <div> 15° </div> <div> 20° </div> <div> 30° </div> <div> 15° </div> <div> 20° </div> <div> 30° </div> <div>  </div>  |          |       |      |       |       |      |       |       |      |       |       |      |       |       |      |   |       |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1,000 lb |       |      |       |       |      |       |       |      |       |       |      |       |       |      |   | ft    |
| 55.8                                                                                                                                                                                                                                                                                                                                                                                                                                               | 177.5    | -     | -    | -     | -     | -    | -     | -     | -    | -     | -     | -    | -     | -     | -    | - | 55.8  |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                                                               | 174.2    | -     | -    | 163.1 | -     | -    | 147.7 | -     | -    | -     | -     | -    | -     | -     | -    | - | 59.1  |
| 62.3                                                                                                                                                                                                                                                                                                                                                                                                                                               | 172.0    | 136.7 | -    | 160.9 | -     | -    | 146.1 | -     | -    | 136.7 | -     | -    | 129.0 | -     | -    | - | 62.3  |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                               | 169.8    | 133.4 | -    | 158.7 | 133.4 | -    | 144.4 | 124.6 | -    | 134.5 | -     | -    | 126.8 | -     | -    | - | 65.6  |
| 68.9                                                                                                                                                                                                                                                                                                                                                                                                                                               | 166.4    | 131.2 | -    | 157.1 | 131.2 | -    | 142.2 | 122.9 | -    | 132.8 | 115.7 | -    | 124.6 | 109.1 | -    | - | 68.9  |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                               | 163.1    | 129.0 | -    | 155.4 | 129.0 | -    | 140.0 | 121.3 | -    | 131.2 | 113.5 | -    | 122.4 | 107.6 | -    | - | 72.2  |
| 75.5                                                                                                                                                                                                                                                                                                                                                                                                                                               | 159.3    | 126.2 | 81.6 | 153.2 | 126.8 | 81.6 | 137.8 | 120.2 | -    | 129.0 | 112.4 | -    | 120.7 | 106.0 | -    | - | 75.5  |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                               | 155.4    | 123.5 | 80.5 | 151.0 | 124.6 | 80.5 | 135.6 | 119.0 | 80.2 | 126.8 | 111.3 | 80.0 | 119.0 | 104.5 | -    | - | 78.7  |
| 82.0                                                                                                                                                                                                                                                                                                                                                                                                                                               | 152.1    | 121.3 | 79.4 | 148.8 | 122.4 | 79.4 | 133.9 | 117.4 | 79.3 | 125.1 | 109.9 | 79.0 | 117.4 | 103.1 | 78.5 | - | 82.0  |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                               | 148.8    | 119.0 | 78.3 | 146.6 | 120.2 | 78.3 | 132.3 | 115.7 | 78.3 | 123.5 | 108.5 | 78.0 | 115.7 | 101.6 | 77.6 | - | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                               | 143.3    | 115.7 | 76.1 | 142.2 | 115.7 | 76.3 | 127.9 | 112.4 | 76.3 | 119.0 | 105.4 | 76.3 | 111.3 | 98.8  | 75.8 | - | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                               | 137.8    | 111.3 | 74.3 | 137.8 | 112.4 | 74.5 | 123.5 | 110.0 | 74.5 | 114.6 | 102.3 | 74.5 | 108.5 | 95.9  | 74.1 | - | 98.4  |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                              | 127.9    | 104.5 | 70.5 | 129.0 | 106.3 | 71.0 | 116.8 | 104.1 | 71.2 | 108.2 | 96.6  | 71.4 | 101.6 | 90.6  | 71.0 | - | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                              | 117.9    | 97.9  | 67.2 | 112.4 | 99.9  | 67.9 | 108.9 | 98.8  | 68.1 | 101.4 | 91.3  | 68.6 | 95.2  | 85.3  | 68.3 | - | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                              | 101.0    | 92.2  | 64.4 | 98.1  | 94.1  | 65.0 | 94.1  | 93.5  | 65.5 | 89.1  | 86.2  | 65.9 | 84.4  | 80.7  | 65.7 | - | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                              | 86.4     | 87.1  | 61.7 | 84.0  | 85.8  | 62.4 | 81.8  | 83.8  | 62.8 | 76.9  | 79.1  | 63.3 | 72.3  | 74.5  | 63.3 | - | 150.9 |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                              | 74.7     | 76.1  | 59.3 | 71.9  | 73.6  | 60.2 | 69.7  | 71.7  | 60.6 | 66.6  | 68.6  | 61.1 | 61.9  | 64.2  | 61.1 | - | 164.0 |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                              | 64.4     | 65.9  | 57.1 | 61.1  | 62.8  | 58.0 | 59.1  | 60.8  | 58.6 | 55.8  | 57.8  | 59.1 | 52.7  | 54.7  | 58.4 | - | 177.2 |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                              | 55.3     | 56.7  | 54.9 | 52.0  | 53.6  | 56.0 | 49.8  | 51.4  | 54.2 | 46.7  | 48.3  | 51.4 | 43.7  | 45.4  | 48.7 | - | 190.3 |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                              | 47.6     | 48.7  | 50.9 | 44.3  | 45.6  | 48.1 | 42.1  | 43.4  | 46.1 | 38.8  | 40.3  | 43.2 | 35.7  | 37.3  | 40.3 | - | 203.4 |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                              | 40.8     | 41.9  | 43.9 | 37.5  | 38.6  | 40.8 | 35.3  | 36.6  | 38.8 | 32.0  | 33.3  | 35.9 | 28.7  | 30.2  | 33.1 | - | 216.5 |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                              | 35.1     | 35.9  | 37.5 | 31.5  | 32.6  | 34.4 | 29.3  | 30.4  | 32.6 | 26.0  | 27.1  | 29.5 | 22.7  | 24.0  | 26.7 | - | 229.7 |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                              | 29.8     | 30.6  | 32.0 | 26.2  | 27.3  | 28.9 | 24.0  | 25.1  | 26.9 | 20.7  | 21.8  | 23.8 | 17.4  | 18.7  | 20.9 | - | 242.8 |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                              | 25.1     | 25.8  | 27.1 | 21.6  | 22.5  | 24.0 | 19.4  | 20.3  | 22.0 | 15.9  | 17.0  | 18.7 | 12.6  | 13.9  | 15.9 | - | 255.9 |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                              | 20.9     | 21.6  | 22.7 | 17.4  | 18.3  | 19.6 | 15.2  | 16.1  | 17.4 | 11.7  | 12.8  | 14.3 | 8.4   | 9.5   | 11.2 | - | 269.0 |
| 272.3                                                                                                                                                                                                                                                                                                                                                                                                                                              | 20.1     | 20.7  | 21.7 | 16.5  | 17.3  | 18.6 | 14.3  | 15.0  | 16.5 | 10.7  | 11.8  | 13.3 | -     | 8.4   | 10.2 | - | 272.3 |
| 275.6                                                                                                                                                                                                                                                                                                                                                                                                                                              | 19.2     | 19.7  | 20.7 | 15.7  | 16.3  | 17.5 | 13.3  | 14.0  | 15.5 | 9.8   | 10.8  | 12.3 | -     | -     | 9.2  | - | 275.6 |
| 278.9                                                                                                                                                                                                                                                                                                                                                                                                                                              | 18.3     | 18.8  | -    | 14.8  | 15.3  | 16.5 | 12.4  | 13.1  | 14.6 | 8.9   | 9.8   | 11.4 | -     | -     | 8.2  | - | 278.9 |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                              | 17.4     | 17.9  | -    | 13.7  | 14.3  | 15.4 | 11.5  | 12.1  | 13.4 | 7.9   | 8.8   | 10.4 | -     | -     | -    | - | 282.2 |
| 285.4                                                                                                                                                                                                                                                                                                                                                                                                                                              | 16.5     | 17.0  | -    | 12.8  | 13.5  | 14.6 | 10.6  | 11.3  | 12.6 | -     | 7.9   | 9.4  | -     | -     | -    | - | 285.4 |
| 288.7                                                                                                                                                                                                                                                                                                                                                                                                                                              | 15.7     | 16.2  | -    | 12.0  | 12.7  | 13.7 | 9.8   | 10.5  | 11.7 | -     | -     | 8.4  | -     | -     | -    | - | 288.7 |
| 292.0                                                                                                                                                                                                                                                                                                                                                                                                                                              | 14.8     | 15.4  | -    | 11.2  | 11.8  | 12.8 | 9.0   | 9.6   | 10.8 | -     | -     | -    | -     | -     | -    | - | 292.0 |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                              | 13.9     | 14.6  | -    | 10.4  | 11.0  | -    | 8.2   | 8.8   | 9.9  | -     | -     | -    | -     | -     | -    | - | 295.3 |
| 298.6                                                                                                                                                                                                                                                                                                                                                                                                                                              | 13.2     | 13.8  | -    | 9.6   | 10.3  | -    | -     | 7.9   | 9.0  | -     | -     | -    | -     | -     | -    | - | 298.6 |
| 301.8                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12.5     | 13.0  | -    | 8.9   | 9.5   | -    | -     | -     | 8.2  | -     | -     | -    | -     | -     | -    | - | 301.8 |
| 305.1                                                                                                                                                                                                                                                                                                                                                                                                                                              | 11.7     | 12.2  | -    | 8.2   | 8.7   | -    | -     | -     | -    | -     | -     | -    | -     | -     | -    | - | 305.1 |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                              | 11.0     | 11.5  | -    | -     | 7.9   | -    | -     | -     | -    | -     | -     | -    | -     | -     | -    | - | 308.4 |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                              | 8.4      | -     | -    | -     | -     | -    | -     | -     | -    | -     | -     | -    | -     | -     | -    | - | 321.5 |


99,200 lb


187,400 lb


275,600 lb


363,800 lb


408,000 lb


452,000 lb


496,100 lb


0 lb


66,100 lb


110,200 lb

|  118.1 ft                                                                                                                                                    |       |  27.6 ft  |      |  32.2 ft/s |      | 360°                                                                                         |       | ASME B30.5                                                                                   |      |                                                                                              |      |      |       |      |      |       |      |      |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------|------|------|-------|------|------|-------|------|------|-------|
|  157.5 ft                                                                                                                                                    |       |  177.2 ft |      |  196.9 ft  |      |  216.5 ft |       |  236.2 ft |      |  255.9 ft |      |      |       |      |      |       |      |      |       |
| LH+LF-1                                                                                                                                                                                                                                       |       |                                                                                            |      |                                                                                             |      |                                                                                              |       |                                                                                              |      |                                                                                              |      |      |       |      |      |       |      |      |       |
|  118.1 ft                                                                                                                                                    |       |                                                                                            |      |                                                                                             |      |                                                                                              |       |                                                                                              |      |                                                                                              |      |      |       |      |      |       |      |      |       |
|  15° 20° 30° 15° 20° 30° 15° 20° 30° 15° 20° 30° 15° 20° 30° 15° 20° 30°  |       |                                                                                            |      |                                                                                             |      |                                                                                              |       |                                                                                              |      |                                                                                              |      |      |       |      |      |       |      |      |       |
| ft                                                                                                                                                                                                                                            |       | 1,000 lb                                                                                   |      |                                                                                             |      |                                                                                              |       |                                                                                              |      |                                                                                              |      | ft   |       |      |      |       |      |      |       |
| 59.1                                                                                                                                                                                                                                          | 117.9 | -                                                                                          | -    | -                                                                                           | -    | -                                                                                            | -     | -                                                                                            | -    | -                                                                                            | -    | -    | -     | -    | -    | -     | -    | -    | 59.1  |
| 62.3                                                                                                                                                                                                                                          | 114.1 | -                                                                                          | -    | 114.6                                                                                       | -    | -                                                                                            | 115.7 | -                                                                                            | -    | -                                                                                            | -    | -    | -     | -    | -    | -     | -    | -    | 62.3  |
| 65.6                                                                                                                                                                                                                                          | 110.2 | -                                                                                          | -    | 111.3                                                                                       | -    | -                                                                                            | 112.4 | -                                                                                            | -    | 112.4                                                                                        | -    | -    | 113.5 | -    | -    | -     | -    | -    | 65.6  |
| 68.9                                                                                                                                                                                                                                          | 106.7 | 86.2                                                                                       | -    | 108.1                                                                                       | -    | -                                                                                            | 109.2 | -                                                                                            | -    | 109.8                                                                                        | -    | -    | 110.7 | -    | -    | 110.2 | -    | -    | 68.9  |
| 72.2                                                                                                                                                                                                                                          | 103.2 | 83.8                                                                                       | -    | 104.9                                                                                       | 84.4 | -                                                                                            | 106.0 | 85.1                                                                                         | -    | 107.1                                                                                        | -    | -    | 107.8 | -    | -    | 108.2 | -    | -    | 72.2  |
| 75.5                                                                                                                                                                                                                                          | 100.2 | 81.6                                                                                       | -    | 102.0                                                                                       | 82.3 | -                                                                                            | 103.2 | 83.0                                                                                         | -    | 104.4                                                                                        | 83.3 | -    | 105.2 | 83.6 | -    | 105.7 | -    | -    | 75.5  |
| 78.7                                                                                                                                                                                                                                          | 97.2  | 79.4                                                                                       | -    | 99.0                                                                                        | 80.2 | -                                                                                            | 100.3 | 80.9                                                                                         | -    | 101.6                                                                                        | 81.4 | -    | 102.5 | 81.6 | -    | 103.2 | 81.8 | -    | 78.7  |
| 85.3                                                                                                                                                                                                                                          | 91.9  | 75.4                                                                                       | -    | 93.9                                                                                        | 76.3 | -                                                                                            | 95.5  | 77.2                                                                                         | -    | 96.6                                                                                         | 77.8 | -    | 97.7  | 78.3 | -    | 98.3  | 78.7 | -    | 85.3  |
| 88.6                                                                                                                                                                                                                                          | 89.5  | 73.6                                                                                       | 49.2 | 91.5                                                                                        | 74.6 | 49.2                                                                                         | 93.1  | 75.5                                                                                         | -    | 94.5                                                                                         | 76.2 | -    | 95.5  | 76.7 | -    | 96.2  | 77.2 | -    | 88.6  |
| 91.9                                                                                                                                                                                                                                          | 87.1  | 71.9                                                                                       | 48.1 | 89.1                                                                                        | 73.0 | 48.3                                                                                         | 90.8  | 73.9                                                                                         | 48.5 | 92.4                                                                                         | 74.5 | 48.5 | 93.3  | 75.2 | -    | 94.1  | 75.6 | -    | 91.9  |
| 95.1                                                                                                                                                                                                                                          | 84.8  | 70.1                                                                                       | 47.1 | 86.9                                                                                        | 71.3 | 47.4                                                                                         | 88.7  | 72.3                                                                                         | 47.6 | 90.3                                                                                         | 73.1 | 47.6 | 91.4  | 73.7 | 47.6 | 92.3  | 74.2 | 47.6 | 95.1  |
| 98.4                                                                                                                                                                                                                                          | 82.5  | 68.3                                                                                       | 46.1 | 84.7                                                                                        | 69.7 | 46.5                                                                                         | 86.6  | 70.8                                                                                         | 46.7 | 88.2                                                                                         | 71.7 | 46.7 | 89.5  | 72.3 | 46.7 | 90.4  | 72.8 | 47.0 | 98.4  |
| 111.5                                                                                                                                                                                                                                         | 74.3  | 62.4                                                                                       | 42.8 | 76.7                                                                                        | 63.9 | 43.2                                                                                         | 78.9  | 65.0                                                                                         | 43.7 | 80.7                                                                                         | 66.1 | 43.9 | 82.2  | 67.0 | 44.1 | 83.6  | 67.9 | 44.1 | 111.5 |
| 124.7                                                                                                                                                                                                                                         | 67.7  | 57.3                                                                                       | 39.7 | 69.9                                                                                        | 58.9 | 40.3                                                                                         | 72.1  | 60.2                                                                                         | 40.8 | 74.1                                                                                         | 61.5 | 41.2 | 75.8  | 62.4 | 41.4 | 77.4  | 63.3 | 41.7 | 124.7 |
| 137.8                                                                                                                                                                                                                                         | 62.4  | 52.9                                                                                       | 37.3 | 64.4                                                                                        | 54.5 | 37.9                                                                                         | 66.6  | 56.0                                                                                         | 38.4 | 68.6                                                                                         | 57.1 | 38.8 | 70.1  | 58.4 | 39.2 | 71.9  | 59.3 | 39.5 | 137.8 |
| 150.9                                                                                                                                                                                                                                         | 58.2  | 49.6                                                                                       | 35.1 | 60.2                                                                                        | 50.9 | 35.7                                                                                         | 61.9  | 52.2                                                                                         | 36.2 | 63.7                                                                                         | 53.6 | 36.8 | 65.3  | 54.7 | 37.3 | 67.0  | 55.8 | 37.5 | 150.9 |
| 164.0                                                                                                                                                                                                                                         | 54.2  | 46.5                                                                                       | 33.1 | 56.4                                                                                        | 48.1 | 33.7                                                                                         | 58.2  | 49.4                                                                                         | 34.4 | 59.7                                                                                         | 50.5 | 34.8 | 61.3  | 51.6 | 35.3 | 62.8  | 52.7 | 35.7 | 164.0 |
| 177.2                                                                                                                                                                                                                                         | 50.5  | 43.7                                                                                       | 31.5 | 52.9                                                                                        | 45.4 | 32.2                                                                                         | 54.9  | 46.7                                                                                         | 32.8 | 56.7                                                                                         | 48.1 | 33.3 | 58.0  | 48.9 | 33.7 | 59.3  | 49.8 | 34.2 | 177.2 |
| 190.3                                                                                                                                                                                                                                         | 47.4  | 41.2                                                                                       | 30.0 | 49.6                                                                                        | 42.8 | 30.6                                                                                         | 51.8  | 44.3                                                                                         | 31.3 | 53.6                                                                                         | 45.4 | 32.0 | 55.1  | 46.5 | 32.4 | 56.4  | 47.6 | 32.8 | 190.3 |
| 203.4                                                                                                                                                                                                                                         | 44.5  | 39.0                                                                                       | 28.9 | 47.0                                                                                        | 40.6 | 29.5                                                                                         | 48.9  | 42.1                                                                                         | 30.0 | 50.7                                                                                         | 43.2 | 30.6 | 52.2  | 44.5 | 31.1 | 53.4  | 45.4 | 31.5 | 203.4 |
| 216.5                                                                                                                                                                                                                                         | 42.1  | 37.0                                                                                       | 27.8 | 44.3                                                                                        | 38.8 | 28.4                                                                                         | 46.3  | 40.1                                                                                         | 28.9 | 48.1                                                                                         | 41.2 | 29.5 | 49.4  | 42.3 | 30.0 | 46.5  | 43.4 | 30.4 | 216.5 |
| 229.7                                                                                                                                                                                                                                         | 40.1  | 35.5                                                                                       | 27.1 | 42.1                                                                                        | 37.0 | 27.6                                                                                         | 44.1  | 38.4                                                                                         | 28.0 | 45.6                                                                                         | 39.5 | 28.4 | 43.4  | 40.6 | 28.9 | 40.3  | 41.7 | 29.3 | 229.7 |
| 242.8                                                                                                                                                                                                                                         | 38.4  | 34.2                                                                                       | -    | 40.1                                                                                        | 35.5 | 26.9                                                                                         | 42.1  | 36.8                                                                                         | 27.3 | 40.3                                                                                         | 37.9 | 27.6 | 38.1  | 39.0 | 28.0 | 35.1  | 36.2 | 28.4 | 242.8 |
| 246.1                                                                                                                                                                                                                                         | 38.0  | 33.8                                                                                       | -    | 39.7                                                                                        | 35.2 | 26.7                                                                                         | 41.3  | 36.5                                                                                         | 27.1 | 39.2                                                                                         | 37.5 | 27.4 | 36.9  | 37.9 | 27.8 | 33.8  | 34.9 | 28.2 | 246.1 |
| 249.3                                                                                                                                                                                                                                         | 37.6  | 33.5                                                                                       | -    | 39.2                                                                                        | 34.9 | -                                                                                            | 40.5  | 36.2                                                                                         | 27.0 | 38.0                                                                                         | 37.1 | 27.2 | 35.7  | 36.7 | 27.7 | 32.6  | 33.7 | 28.0 | 249.3 |
| 255.9                                                                                                                                                                                                                                         | 36.8  | -                                                                                          | -    | 38.6                                                                                        | 34.2 | -                                                                                            | 38.8  | 35.5                                                                                         | 26.7 | 35.7                                                                                         | 36.4 | 26.9 | 33.3  | 34.4 | 27.3 | 30.2  | 31.3 | 27.6 | 255.9 |
| 259.2                                                                                                                                                                                                                                         | -     | -                                                                                          | -    | 38.2                                                                                        | 34.0 | -                                                                                            | 37.8  | 35.2                                                                                         | 26.5 | 34.6                                                                                         | 35.3 | 26.8 | 32.2  | 33.3 | 27.2 | 29.2  | 30.2 | 27.4 | 259.2 |
| 265.7                                                                                                                                                                                                                                         | -     | -                                                                                          | -    | 37.4                                                                                        | 33.5 | -                                                                                            | 35.7  | 34.5                                                                                         | -    | 32.4                                                                                         | 33.2 | 26.6 | 30.1  | 31.1 | 26.9 | 27.1  | 28.0 | 27.1 | 265.7 |
| 269.0                                                                                                                                                                                                                                         | -     | -                                                                                          | -    | 37.0                                                                                        | -    | -                                                                                            | 34.6  | 34.2                                                                                         | -    | 31.3                                                                                         | 32.2 | 26.5 | 29.1  | 30.0 | 26.7 | 26.0  | 26.9 | 26.9 | 269.0 |
| 272.3                                                                                                                                                                                                                                         | -     | -                                                                                          | -    | 36.6                                                                                        | -    | -                                                                                            | 33.6  | 33.4                                                                                         | -    | 30.4                                                                                         | 31.2 | 26.2 | 28.2  | 29.0 | 26.6 | 25.0  | 25.9 | 26.3 | 272.3 |
| 282.2                                                                                                                                                                                                                                         | -     | -                                                                                          | -    | -                                                                                           | -    | -                                                                                            | 30.6  | 31.1                                                                                         | -    | 27.6                                                                                         | 28.2 | -    | 25.4  | 26.0 | 26.2 | 22.0  | 22.9 | 24.5 | 282.2 |
| 285.4                                                                                                                                                                                                                                         | -     | -                                                                                          | -    | -                                                                                           | -    | -                                                                                            | 29.8  | -                                                                                            | -    | 26.7                                                                                         | 27.3 | -    | 24.5  | 25.1 | 26.0 | 21.2  | 22.0 | 23.5 | 285.4 |
| 288.7                                                                                                                                                                                                                                         | -     | -                                                                                          | -    | -                                                                                           | -    | -                                                                                            | 28.9  | -                                                                                            | -    | 25.8                                                                                         | 26.5 | -    | 23.6  | 24.3 | -    | 20.3  | 21.2 | 22.6 | 288.7 |
| 295.3                                                                                                                                                                                                                                         | -     | -                                                                                          | -    | -                                                                                           | -    | -                                                                                            | -     | -                                                                                            | -    | 24.0                                                                                         | 24.7 | -    | 21.8  | 22.5 | -    | 18.5  | 19.4 | 20.7 | 295.3 |
| 301.8                                                                                                                                                                                                                                         | -     | -                                                                                          | -    | -                                                                                           | -    | -                                                                                            | -     | -                                                                                            | -    | 22.5                                                                                         | -    | -    | 20.2  | 20.7 | -    | 17.0  | 17.7 | 19.0 | 301.8 |
| 308.4                                                                                                                                                                                                                                         | -     | -                                                                                          | -    | -                                                                                           | -    | -                                                                                            | -     | -                                                                                            | -    | 20.9                                                                                         | -    | -    | 18.7  | 19.2 | -    | 15.4  | 16.1 | -    | 308.4 |
| 311.7                                                                                                                                                                                                                                         | -     | -                                                                                          | -    | -                                                                                           | -    | -                                                                                            | -     | -                                                                                            | -    | -                                                                                            | -    | -    | 18.0  | 18.3 | -    | 14.7  | 15.3 | -    | 311.7 |
| 321.5                                                                                                                                                                                                                                         | -     | -                                                                                          | -    | -                                                                                           | -    | -                                                                                            | -     | -                                                                                            | -    | -                                                                                            | -    | -    | 15.7  | -    | -    | 12.6  | 13.0 | -    | 321.5 |
| 324.8                                                                                                                                                                                                                                         | -     | -                                                                                          | -    | -                                                                                           | -    | -                                                                                            | -     | -                                                                                            | -    | -                                                                                            | -    | -    | 15.0  | -    | -    | 11.8  | 12.3 | -    | 324.8 |
| 328.1                                                                                                                                                                                                                                         | -     | -                                                                                          | -    | -                                                                                           | -    | -                                                                                            | -     | -                                                                                            | -    | -                                                                                            | -    | -    | -     | -    | -    | 11.1  | 11.7 | -    | 328.1 |
| 334.6                                                                                                                                                                                                                                         | -     | -                                                                                          | -    | -                                                                                           | -    | -                                                                                            | -     | -                                                                                            | -    | -                                                                                            | -    | -    | -     | -    | -    | 9.7   | -    | -    | 334.6 |
| 341.2                                                                                                                                                                                                                                         | -     | -                                                                                          | -    | -                                                                                           | -    | -                                                                                            | -     | -                                                                                            | -    | -                                                                                            | -    | -    | -     | -    | -    | 8.6   | -    | -    | 341.2 |

|                                                                                     |           |            |            |            |            |            |            |
|-------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|------------|------------|
|  | 99,200 lb | 187,400 lb | 275,600 lb | 363,800 lb | 408,000 lb | 452,000 lb | 496,100 lb |
|  | 0 lb      |            |            | 66,100 lb  | 110,200 lb |            |            |

| <div>  118.1 ft <div>  27.6 ft <div>  32.2 ft/s 360° ASME B30.5 </div> </div> </div> |          |      |      |       |      |      |      |      |      |      |      |      |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|-------|------|------|------|------|------|------|------|------|-------|
| <div> <div>275.6 ft</div> <div>295.3 ft</div> <div>315.0 ft</div> <div>334.6 ft</div> </div>                                                                                                                                                                                                                                            |          |      |      |       |      |      |      |      |      |      |      |      |       |
| <div> <div>LH+LF_1</div> <div>118.1 ft</div> </div>                                                                                                                                                                                                                                                                                     |          |      |      |       |      |      |      |      |      |      |      |      |       |
| <div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>30°</div> </div>                                                                                                                                        |          |      |      |       |      |      |      |      |      |      |      |      |       |
| ft                                                                                                                                                                                                                                                                                                                                      | 1,000 lb |      |      |       |      |      |      |      |      |      |      |      | ft    |
| 68.9                                                                                                                                                                                                                                                                                                                                    | 110.2    | -    | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    | 68.9  |
| 72.2                                                                                                                                                                                                                                                                                                                                    | 108.0    | -    | -    | 106.3 | -    | -    | -    | -    | -    | -    | -    | -    | 72.2  |
| 75.5                                                                                                                                                                                                                                                                                                                                    | 105.7    | -    | -    | 104.5 | -    | -    | 96.8 | -    | -    | 90.6 | -    | -    | 75.5  |
| 78.7                                                                                                                                                                                                                                                                                                                                    | 103.4    | 81.6 | -    | 102.7 | -    | -    | 95.7 | -    | -    | 89.5 | -    | -    | 78.7  |
| 82.0                                                                                                                                                                                                                                                                                                                                    | 101.2    | 80.1 | -    | 101.0 | 80.0 | -    | 94.5 | 79.4 | -    | 88.3 | -    | -    | 82.0  |
| 85.3                                                                                                                                                                                                                                                                                                                                    | 99.0     | 78.7 | -    | 99.2  | 78.7 | -    | 93.3 | 78.0 | -    | 87.1 | 74.7 | -    | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                                    | 95.0     | 75.8 | -    | 95.5  | 75.8 | -    | 90.8 | 75.6 | -    | 84.7 | 73.0 | -    | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                    | 91.3     | 73.2 | 46.7 | 91.9  | 73.4 | 46.5 | 88.4 | 73.2 | -    | 82.5 | 71.2 | -    | 98.4  |
| 101.7                                                                                                                                                                                                                                                                                                                                   | 89.7     | 72.0 | 46.1 | 90.3  | 72.3 | 45.9 | 87.2 | 72.1 | 45.6 | 81.2 | 70.3 | 45.4 | 101.7 |
| 111.5                                                                                                                                                                                                                                                                                                                                   | 84.9     | 68.3 | 44.1 | 85.5  | 68.8 | 44.1 | 83.6 | 68.8 | 44.1 | 77.6 | 67.7 | 43.9 | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                   | 78.9     | 64.2 | 41.9 | 79.8  | 64.8 | 41.9 | 78.9 | 64.8 | 41.9 | 73.2 | 64.4 | 41.9 | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                   | 73.6     | 60.4 | 39.9 | 74.7  | 61.1 | 39.9 | 74.5 | 61.3 | 39.9 | 68.8 | 61.1 | 39.9 | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                                   | 68.8     | 56.9 | 37.9 | 70.1  | 57.5 | 38.1 | 70.3 | 58.0 | 38.1 | 64.8 | 58.0 | 38.4 | 150.9 |
| 164.0                                                                                                                                                                                                                                                                                                                                   | 64.6     | 53.8 | 36.2 | 65.9  | 54.5 | 36.4 | 66.6 | 55.1 | 36.6 | 61.1 | 54.9 | 36.6 | 164.0 |
| 177.2                                                                                                                                                                                                                                                                                                                                   | 61.1     | 50.9 | 34.6 | 62.2  | 51.8 | 34.8 | 63.1 | 52.5 | 35.1 | 57.5 | 52.2 | 35.3 | 177.2 |
| 190.3                                                                                                                                                                                                                                                                                                                                   | 58.0     | 48.7 | 33.3 | 57.3  | 49.4 | 33.5 | 55.3 | 50.0 | 33.7 | 52.0 | 49.6 | 34.0 | 190.3 |
| 203.4                                                                                                                                                                                                                                                                                                                                   | 52.2     | 46.7 | 32.0 | 49.2  | 47.4 | 32.4 | 47.2 | 47.8 | 32.6 | 44.3 | 46.5 | 32.6 | 203.4 |
| 216.5                                                                                                                                                                                                                                                                                                                                   | 45.2     | 44.8 | 30.9 | 42.1  | 44.1 | 31.3 | 40.1 | 42.1 | 31.5 | 37.3 | 39.2 | 31.5 | 216.5 |
| 229.7                                                                                                                                                                                                                                                                                                                                   | 39.2     | 40.6 | 29.8 | 36.2  | 37.7 | 30.2 | 34.0 | 35.7 | 30.4 | 31.1 | 32.8 | 30.9 | 229.7 |
| 242.8                                                                                                                                                                                                                                                                                                                                   | 33.7     | 35.1 | 28.9 | 30.6  | 32.2 | 29.3 | 28.7 | 30.2 | 29.5 | 25.6 | 27.3 | 30.0 | 242.8 |
| 255.9                                                                                                                                                                                                                                                                                                                                   | 28.9     | 30.2 | 28.2 | 25.8  | 27.1 | 28.4 | 23.8 | 25.1 | 28.0 | 20.7 | 22.3 | 25.1 | 255.9 |
| 269.0                                                                                                                                                                                                                                                                                                                                   | 24.7     | 25.8 | 27.3 | 21.6  | 22.7 | 24.9 | 19.4 | 20.7 | 23.1 | 16.3 | 17.6 | 20.5 | 269.0 |
| 282.2                                                                                                                                                                                                                                                                                                                                   | 20.7     | 21.8 | 23.6 | 17.6  | 18.7 | 20.7 | 15.4 | 16.8 | 19.0 | 12.3 | 13.7 | 16.1 | 282.2 |
| 295.3                                                                                                                                                                                                                                                                                                                                   | 17.2     | 18.1 | 19.6 | 14.1  | 15.0 | 16.8 | 11.9 | 13.0 | 15.0 | 8.8  | 9.9  | 12.1 | 295.3 |
| 298.6                                                                                                                                                                                                                                                                                                                                   | 16.4     | 17.3 | 18.7 | 13.3  | 14.3 | 15.9 | 11.1 | 12.2 | 14.1 | 7.9  | 9.0  | 11.2 | 298.6 |
| 301.8                                                                                                                                                                                                                                                                                                                                   | 15.7     | 16.5 | 17.9 | 12.5  | 13.4 | 15.0 | 10.4 | 11.4 | 13.2 | -    | 8.2  | 10.4 | 301.8 |
| 308.4                                                                                                                                                                                                                                                                                                                                   | 14.1     | 15.0 | 16.1 | 10.8  | 11.7 | 13.2 | 8.8  | 9.7  | 11.5 | -    | -    | 8.6  | 308.4 |
| 311.7                                                                                                                                                                                                                                                                                                                                   | 13.4     | 14.1 | 15.3 | 10.1  | 11.0 | 12.5 | 7.9  | 8.9  | 10.6 | -    | -    | 7.7  | 311.7 |
| 315.0                                                                                                                                                                                                                                                                                                                                   | 12.7     | 13.4 | 14.6 | 9.4   | 10.3 | 11.7 | -    | 8.2  | 9.8  | -    | -    | -    | 315.0 |
| 321.5                                                                                                                                                                                                                                                                                                                                   | 11.2     | 11.9 | -    | 7.9   | 8.8  | 10.1 | -    | -    | 8.2  | -    | -    | -    | 321.5 |
| 324.8                                                                                                                                                                                                                                                                                                                                   | 10.6     | 11.2 | -    | -     | 7.9  | 9.4  | -    | -    | -    | -    | -    | -    | 324.8 |
| 328.1                                                                                                                                                                                                                                                                                                                                   | 9.9      | 10.5 | -    | -     | -    | 8.6  | -    | -    | -    | -    | -    | -    | 328.1 |
| 334.6                                                                                                                                                                                                                                                                                                                                   | 8.6      | 9.0  | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    | 334.6 |
| 337.9                                                                                                                                                                                                                                                                                                                                   | 7.9      | 8.4  | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    | 337.9 |
| 341.2                                                                                                                                                                                                                                                                                                                                   | -        | 7.7  | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    | 341.2 |

99,200 lb

187,400 lb

275,600 lb

363,800 lb

408,000 lb

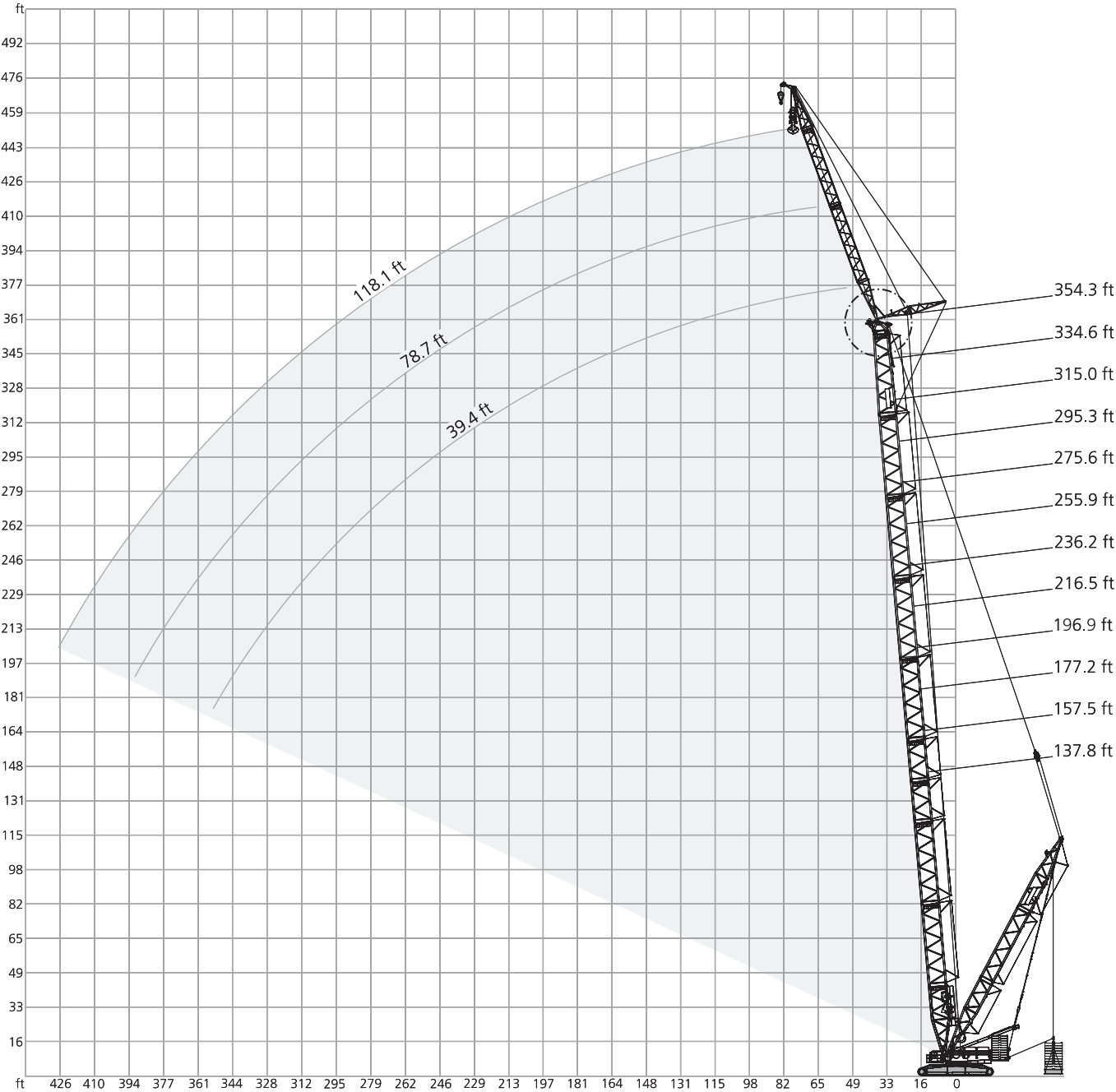
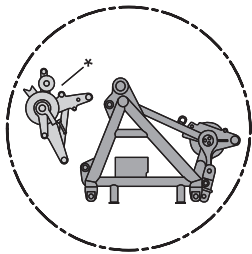
452,000 lb

496,100 lb

0 lb

66,100 lb

110,200 lb



\* Attachable

| <div><div><div></div></div>363,800 lb + <div><div></div></div>110,200 lb</div> |       |                  |       |                  |       |                  |       |                  |       |                  |      | <div><div></div></div> 36.1-62.3 ft |       |  |  | <div><div></div></div> 27.6 ft |  | <div><div></div></div> 32.2 ft/s |  | 360° |  | ASME B30.5 |  |
|--------------------------------------------------------------------------------|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|------------------|------|-------------------------------------|-------|--|--|--------------------------------|--|----------------------------------|--|------|--|------------|--|
| 137.8 ft                                                                       |       |                  |       |                  |       |                  |       |                  |       |                  |      |                                     |       |  |  |                                |  |                                  |  |      |  |            |  |
| SSL+LF_1                                                                       |       |                  |       |                  |       |                  |       |                  |       |                  |      |                                     |       |  |  |                                |  |                                  |  |      |  |            |  |
| 39.4 ft                                                                        |       |                  |       |                  |       | 78.7 ft          |       |                  |       |                  |      | 118.1 ft                            |       |  |  |                                |  |                                  |  |      |  |            |  |
| 0 lb - 716.6 klb                                                               |       | 0 lb - 716.6 klb |       | 0 lb - 716.6 klb |       | 0 lb - 716.6 klb |       | 0 lb - 716.6 klb |       | 0 lb - 716.6 klb |      | 0 lb - 716.6 klb                    |       |  |  |                                |  |                                  |  |      |  |            |  |
| 0 lb                                                                           |       | 0 lb             |       | 0 lb             |       | 0 lb             |       | 0 lb             |       | 0 lb             |      | 0 lb                                |       |  |  |                                |  |                                  |  |      |  |            |  |
| 15°                                                                            |       | 20°              |       | 30°              |       | 15°              |       | 20°              |       | 30°              |      | 15°                                 |       |  |  |                                |  |                                  |  |      |  |            |  |
| 20°                                                                            |       | 30°              |       | 15°              |       | 20°              |       | 30°              |       | 15°              |      | 20°                                 |       |  |  |                                |  |                                  |  |      |  |            |  |
| 30°                                                                            |       | 15°              |       | 20°              |       | 30°              |       | 15°              |       | 20°              |      | 30°                                 |       |  |  |                                |  |                                  |  |      |  |            |  |
| ft                                                                             |       |                  |       |                  |       |                  |       |                  |       |                  |      |                                     |       |  |  |                                |  |                                  |  |      |  |            |  |
| 1,000 lb                                                                       |       |                  |       |                  |       |                  |       |                  |       |                  |      |                                     |       |  |  |                                |  |                                  |  |      |  |            |  |
| 36.1                                                                           | 357.1 | 357.1            | -     | -                | -     | -                | -     | -                | -     | -                | -    | -                                   | -     |  |  |                                |  |                                  |  |      |  |            |  |
| 39.4                                                                           | 339.5 | 339.5            | 264.6 | 264.6            | -     | -                | -     | -                | -     | -                | -    | -                                   | -     |  |  |                                |  |                                  |  |      |  |            |  |
| 42.7                                                                           | 324.1 | 324.1            | 254.6 | 254.6            | 168.7 | 168.7            | -     | -                | -     | -                | -    | -                                   | -     |  |  |                                |  |                                  |  |      |  |            |  |
| 45.9                                                                           | 308.6 | 308.6            | 244.7 | 244.7            | 164.2 | 164.2            | -     | -                | -     | -                | -    | -                                   | -     |  |  |                                |  |                                  |  |      |  |            |  |
| 49.2                                                                           | 295.4 | 295.4            | 235.9 | 235.9            | 159.8 | 159.8            | 174.2 | 174.2            | -     | -                | -    | -                                   | -     |  |  |                                |  |                                  |  |      |  |            |  |
| 52.5                                                                           | 282.2 | 282.2            | 227.1 | 227.1            | 155.4 | 155.4            | 166.4 | 166.4            | -     | -                | -    | -                                   | -     |  |  |                                |  |                                  |  |      |  |            |  |
| 55.8                                                                           | 272.3 | 272.3            | 219.9 | 219.9            | 151.6 | 151.6            | 159.8 | 159.8            | 127.9 | 127.9            | -    | -                                   | -     |  |  |                                |  |                                  |  |      |  |            |  |
| 59.1                                                                           | 262.4 | 262.4            | 212.7 | 212.7            | 147.7 | 147.7            | 153.2 | 153.2            | 123.5 | 123.5            | -    | -                                   | -     |  |  |                                |  |                                  |  |      |  |            |  |
| 62.3                                                                           | 252.4 | 252.4            | 206.7 | 206.7            | 144.4 | 144.4            | 147.7 | 147.7            | 119.6 | 119.6            | -    | -                                   | -     |  |  |                                |  |                                  |  |      |  |            |  |
| 65.6                                                                           | 242.5 | 242.5            | 200.6 | 200.6            | 141.1 | 141.1            | 142.2 | 142.2            | 115.7 | 115.7            | 79.1 | 79.1                                | 110.2 |  |  |                                |  |                                  |  |      |  |            |  |
| 72.2                                                                           | 227.1 | 227.1            | 189.6 | 189.6            | 135.6 | 135.6            | 132.3 | 132.3            | 108.7 | 108.7            | 75.2 | 75.2                                | 99.4  |  |  |                                |  |                                  |  |      |  |            |  |
| 78.7                                                                           | 213.8 | 213.8            | 179.7 | 179.7            | 130.1 | 130.1            | 123.5 | 123.5            | 102.5 | 102.5            | 71.7 | 71.7                                | 93.0  |  |  |                                |  |                                  |  |      |  |            |  |
| 85.3                                                                           | 201.7 | 201.7            | 170.9 | 170.9            | 124.6 | 124.6            | 116.8 | 116.8            | 97.0  | 97.0             | 68.6 | 68.6                                | 87.3  |  |  |                                |  |                                  |  |      |  |            |  |
| 88.6                                                                           | 196.2 | 196.2            | 166.4 | 166.4            | 122.4 | 122.4            | 113.4 | 113.4            | 94.6  | 94.6             | 67.1 | 67.1                                | 84.8  |  |  |                                |  |                                  |  |      |  |            |  |
| 91.9                                                                           | 190.7 | 190.7            | 162.0 | 162.0            | 120.2 | 120.2            | 110.0 | 110.0            | 92.2  | 92.2             | 65.7 | 65.7                                | 82.2  |  |  |                                |  |                                  |  |      |  |            |  |
| 98.4                                                                           | 173.1 | 181.9            | 155.4 | 155.4            | 116.8 | 116.8            | 104.1 | 104.1            | 87.7  | 87.7             | 63.1 | 63.1                                | 77.4  |  |  |                                |  |                                  |  |      |  |            |  |
| 111.5                                                                          | 146.6 | 165.7            | 140.7 | 143.7            | 110.4 | 110.4            | 94.4  | 94.4             | 80.4  | 80.4             | 58.8 | 58.8                                | 69.6  |  |  |                                |  |                                  |  |      |  |            |  |
| 124.7                                                                          | 124.4 | 152.1            | 124.6 | 133.7            | 104.9 | 104.9            | 85.9  | 85.9             | 73.9  | 73.9             | 55.0 | 55.0                                | 62.9  |  |  |                                |  |                                  |  |      |  |            |  |
| 137.8                                                                          | 106.5 | 141.1            | 106.9 | 125.7            | 100.5 | 100.5            | 78.7  | 78.7             | 68.3  | 68.3             | 51.6 | 51.6                                | 57.3  |  |  |                                |  |                                  |  |      |  |            |  |
| 144.4                                                                          | 100.0 | 137.1            | 100.4 | 122.7            | 94.6  | 98.8             | 75.9  | 75.9             | 66.2  | 66.2             | 50.3 | 50.3                                | 55.0  |  |  |                                |  |                                  |  |      |  |            |  |
| 150.9                                                                          | 93.5  | 133.0            | 93.8  | 119.8            | -     | -                | 73.1  | 73.1             | 64.1  | 64.1             | 49.1 | 49.1                                | 52.8  |  |  |                                |  |                                  |  |      |  |            |  |
| 157.5                                                                          | 87.1  | 129.0            | 87.3  | 116.8            | -     | -                | 70.3  | 70.3             | 61.9  | 61.9             | 47.8 | 47.8                                | 50.5  |  |  |                                |  |                                  |  |      |  |            |  |
| 164.0                                                                          | 81.8  | 125.7            | -     | -                | -     | -                | 68.2  | 68.2             | 60.3  | 60.3             | 46.9 | 46.9                                | 48.7  |  |  |                                |  |                                  |  |      |  |            |  |
| 177.2                                                                          | -     | -                | -     | -                | -     | -                | 63.9  | 63.9             | 56.9  | 56.9             | 45.0 | 45.0                                | 45.2  |  |  |                                |  |                                  |  |      |  |            |  |
| 180.4                                                                          | -     | -                | -     | -                | -     | -                | 63.1  | 63.1             | 56.3  | 56.3             | 44.8 | 44.8                                | 44.5  |  |  |                                |  |                                  |  |      |  |            |  |
| 190.3                                                                          | -     | -                | -     | -                | -     | -                | 60.7  | 60.7             | 54.5  | 54.5             | -    | -                                   | 42.3  |  |  |                                |  |                                  |  |      |  |            |  |
| 196.9                                                                          | -     | -                | -     | -                | -     | -                | 59.1  | 59.1             | 53.4  | 53.4             | -    | -                                   | 40.8  |  |  |                                |  |                                  |  |      |  |            |  |
| 203.4                                                                          | -     | -                | -     | -                | -     | -                | 58.0  | 58.0             | -     | -                | -    | -                                   | 39.7  |  |  |                                |  |                                  |  |      |  |            |  |
| 216.5                                                                          | -     | -                | -     | -                | -     | -                | -     | -                | -     | -                | -    | -                                   | 37.5  |  |  |                                |  |                                  |  |      |  |            |  |
| 219.8                                                                          | -     | -                | -     | -                | -     | -                | -     | -                | -     | -                | -    | -                                   | 37.0  |  |  |                                |  |                                  |  |      |  |            |  |
| 229.7                                                                          | -     | -                | -     | -                | -     | -                | -     | -                | -     | -                | -    | -                                   | 35.7  |  |  |                                |  |                                  |  |      |  |            |  |
| 236.2                                                                          | -     | -                | -     | -                | -     | -                | -     | -                | -     | -                | -    | -                                   | 34.8  |  |  |                                |  |                                  |  |      |  |            |  |
| 239.5                                                                          | -     | -                | -     | -                | -     | -                | -     | -                | -     | -                | -    | -                                   | 34.4  |  |  |                                |  |                                  |  |      |  |            |  |

0 lb

143,300 lb

275,600 lb

363,800 lb

452,000 lb

584,300 lb

716,600 lb

|                                                                                     |      |            |            |            |            |            |            |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|
|  | 0 lb | 143,300 lb | 275,600 lb | 363,800 lb | 452,000 lb | 584,300 lb | 716,600 lb |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|

|  363,800 lb +  110,200 lb |                                                                                                          |       |  36.1-62.3 ft           |       |                                                                                                          |       |  27.6 ft                |       |  32.2 ft/s              |       | 360°                                                                                                       |      | ASME B30.5                                                                                                 |       |      |      |      |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------|-------|------|------|------|--|
|                                                                                                            | 157.5 ft                                                                                                 |       |                                                                                                          |       |                                                                                                          |       |                                                                                                          |       |                                                                                                            |       |                                                                                                            |      |                                                                                                            |       |      |      |      |  |
|                                                                                                                                                                                             | SSL+LF_1                                                                                                 |       |                                                                                                          |       |                                                                                                          |       |                                                                                                          |       |                                                                                                            |       |                                                                                                            |      |                                                                                                            |       |      |      |      |  |
|                                                                                                                                                                                             | 39.4 ft                                                                                                  |       |                                                                                                          |       |                                                                                                          |       | 78.7 ft                                                                                                  |       |                                                                                                            |       |                                                                                                            |      | 118.1 ft                                                                                                   |       |      |      |      |  |
|                                                                                                                                                                                             |  0 lb<br>0 lb-716.6 klb |       |  0 lb<br>0 lb-716.6 klb |       |  0 lb<br>0 lb-716.6 klb |       |  0 lb<br>0 lb-716.6 klb |       |  0 lb<br>0 lb-716.6 klb |       |  0 lb<br>0 lb-716.6 klb |      |  0 lb<br>0 lb-716.6 klb |       |      |      |      |  |
|                                                                                                            |  15°                    |       | 20°                                                                                                      |       | 30°                                                                                                      |       | 15°                                                                                                      |       | 20°                                                                                                        |       | 30°                                                                                                        |      | 15°                                                                                                        |       | 20°  |      | 30°  |  |
|                                                                                                                                                                                             | ft                                                                                                       |       |                                                                                                          |       |                                                                                                          |       |                                                                                                          |       |                                                                                                            |       |                                                                                                            |      |                                                                                                            |       |      |      |      |  |
| 1,000 lb                                                                                                                                                                                    |                                                                                                          |       |                                                                                                          |       |                                                                                                          |       |                                                                                                          |       |                                                                                                            |       |                                                                                                            |      |                                                                                                            |       |      |      |      |  |
| 36.1                                                                                                                                                                                        | 368.2                                                                                                    | 368.2 | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                          | -     | -                                                                                                          | -    | -                                                                                                          | -     | -    | -    | -    |  |
| 39.4                                                                                                                                                                                        | 350.5                                                                                                    | 350.5 | 269.0                                                                                                    | 269.0 | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                          | -     | -                                                                                                          | -    | -                                                                                                          | -     | -    | -    | -    |  |
| 45.9                                                                                                                                                                                        | 319.7                                                                                                    | 319.7 | 251.3                                                                                                    | 251.3 | 166.4                                                                                                    | 166.4 | -                                                                                                        | -     | -                                                                                                          | -     | -                                                                                                          | -    | -                                                                                                          | -     | -    | -    | -    |  |
| 49.2                                                                                                                                                                                        | 307.5                                                                                                    | 307.5 | 242.5                                                                                                    | 242.5 | 162.6                                                                                                    | 162.6 | 178.6                                                                                                    | 178.6 | -                                                                                                          | -     | -                                                                                                          | -    | -                                                                                                          | -     | -    | -    | -    |  |
| 52.5                                                                                                                                                                                        | 295.4                                                                                                    | 295.4 | 233.7                                                                                                    | 233.7 | 158.7                                                                                                    | 158.7 | 172.0                                                                                                    | 172.0 | -                                                                                                          | -     | -                                                                                                          | -    | -                                                                                                          | -     | -    | -    | -    |  |
| 55.8                                                                                                                                                                                        | 284.4                                                                                                    | 284.4 | 227.1                                                                                                    | 227.1 | 154.9                                                                                                    | 154.9 | 165.3                                                                                                    | 165.3 | 130.1                                                                                                      | 130.1 | -                                                                                                          | -    | -                                                                                                          | -     | -    | -    | -    |  |
| 59.1                                                                                                                                                                                        | 273.4                                                                                                    | 273.4 | 220.5                                                                                                    | 220.5 | 151.0                                                                                                    | 151.0 | 158.7                                                                                                    | 158.7 | 125.7                                                                                                      | 125.7 | -                                                                                                          | -    | -                                                                                                          | -     | -    | -    | -    |  |
| 62.3                                                                                                                                                                                        | 264.6                                                                                                    | 264.6 | 214.4                                                                                                    | 214.4 | 147.7                                                                                                    | 147.7 | 153.2                                                                                                    | 153.2 | 121.8                                                                                                      | 121.8 | -                                                                                                          | -    | 112.4                                                                                                      | 112.4 | -    | -    | -    |  |
| 65.6                                                                                                                                                                                        | 255.7                                                                                                    | 255.7 | 208.3                                                                                                    | 208.3 | 144.4                                                                                                    | 144.4 | 147.7                                                                                                    | 147.7 | 117.9                                                                                                      | 117.9 | -                                                                                                          | -    | 108.5                                                                                                      | 108.9 | -    | -    | -    |  |
| 68.9                                                                                                                                                                                        | 248.0                                                                                                    | 248.0 | 202.8                                                                                                    | 202.8 | 141.6                                                                                                    | 141.6 | 142.7                                                                                                    | 142.7 | 114.6                                                                                                      | 114.6 | 78.0                                                                                                       | 78.0 | 104.8                                                                                                      | 105.3 | -    | -    | -    |  |
| 72.2                                                                                                                                                                                        | 240.3                                                                                                    | 240.3 | 197.3                                                                                                    | 197.3 | 138.9                                                                                                    | 138.9 | 137.8                                                                                                    | 137.8 | 111.3                                                                                                      | 111.3 | 76.3                                                                                                       | 76.3 | 101.2                                                                                                      | 101.6 | 82.2 | 82.7 | -    |  |
| 78.7                                                                                                                                                                                        | 224.9                                                                                                    | 224.9 | 187.4                                                                                                    | 187.4 | 133.4                                                                                                    | 133.4 | 129.0                                                                                                    | 129.0 | 105.8                                                                                                      | 105.8 | 73.0                                                                                                       | 73.0 | 95.0                                                                                                       | 95.5  | 77.6 | 78.0 | -    |  |
| 85.3                                                                                                                                                                                        | 209.4                                                                                                    | 213.8 | 178.6                                                                                                    | 178.6 | 129.0                                                                                                    | 129.0 | 121.3                                                                                                    | 121.3 | 100.3                                                                                                      | 100.3 | 69.9                                                                                                       | 69.9 | 89.7                                                                                                       | 89.9  | 73.6 | 73.6 | -    |  |
| 91.9                                                                                                                                                                                        | 188.5                                                                                                    | 202.8 | 170.9                                                                                                    | 170.9 | 124.6                                                                                                    | 124.6 | 114.6                                                                                                    | 114.6 | 95.5                                                                                                       | 95.5  | 67.2                                                                                                       | 67.2 | 84.7                                                                                                       | 84.9  | 69.9 | 69.9 | 47.4 |  |
| 98.4                                                                                                                                                                                        | 169.8                                                                                                    | 192.9 | 163.1                                                                                                    | 163.1 | 120.2                                                                                                    | 120.2 | 109.3                                                                                                    | 109.3 | 91.1                                                                                                       | 91.1  | 64.6                                                                                                       | 64.6 | 80.0                                                                                                       | 80.2  | 66.4 | 66.4 | 45.4 |  |
| 111.5                                                                                                                                                                                       | 143.3                                                                                                    | 176.7 | 141.8                                                                                                    | 151.4 | 113.5                                                                                                    | 113.5 | 99.5                                                                                                     | 99.5  | 83.7                                                                                                       | 83.7  | 60.3                                                                                                       | 60.3 | 72.2                                                                                                       | 72.3  | 60.5 | 60.5 | 41.9 |  |
| 124.7                                                                                                                                                                                       | 121.2                                                                                                    | 162.8 | 122.1                                                                                                    | 141.1 | 108.0                                                                                                    | 108.0 | 90.8                                                                                                     | 90.8  | 77.2                                                                                                       | 77.2  | 56.5                                                                                                       | 56.5 | 65.5                                                                                                       | 65.6  | 55.3 | 55.3 | 38.8 |  |
| 137.8                                                                                                                                                                                       | 103.4                                                                                                    | 151.0 | 104.1                                                                                                    | 132.3 | 103.6                                                                                                    | 103.6 | 83.3                                                                                                     | 83.3  | 71.7                                                                                                       | 71.7  | 53.1                                                                                                       | 53.1 | 59.7                                                                                                       | 60.0  | 50.7 | 50.7 | 36.2 |  |
| 150.9                                                                                                                                                                                       | 90.3                                                                                                     | 141.5 | 90.8                                                                                                     | 125.7 | 91.1                                                                                                     | 100.2 | 77.5                                                                                                     | 77.5  | 67.1                                                                                                       | 67.1  | 50.6                                                                                                       | 50.6 | 55.3                                                                                                       | 55.4  | 47.2 | 47.2 | 34.0 |  |
| 157.5                                                                                                                                                                                       | 83.8                                                                                                     | 136.7 | 84.2                                                                                                     | 122.4 | 84.9                                                                                                     | 98.5  | 74.5                                                                                                     | 74.5  | 64.8                                                                                                       | 64.8  | 49.4                                                                                                       | 49.4 | 53.1                                                                                                       | 53.1  | 45.4 | 45.4 | 32.8 |  |
| 164.0                                                                                                                                                                                       | 78.9                                                                                                     | 133.4 | 79.1                                                                                                     | 119.7 | -                                                                                                        | -     | 72.2                                                                                                     | 72.2  | 63.1                                                                                                       | 63.1  | 48.4                                                                                                       | 48.4 | 51.3                                                                                                       | 51.3  | 43.9 | 43.9 | 31.9 |  |
| 173.9                                                                                                                                                                                       | 71.5                                                                                                     | 128.4 | 71.4                                                                                                     | 115.7 | -                                                                                                        | -     | 68.8                                                                                                     | 68.8  | 60.6                                                                                                       | 60.6  | 46.8                                                                                                       | 46.8 | 48.5                                                                                                       | 48.5  | 41.7 | 41.7 | 30.5 |  |
| 177.2                                                                                                                                                                                       | 69.0                                                                                                     | 126.8 | -                                                                                                        | -     | -                                                                                                        | -     | 67.7                                                                                                     | 67.7  | 59.7                                                                                                       | 59.7  | 46.3                                                                                                       | 46.3 | 47.6                                                                                                       | 47.6  | 41.0 | 41.0 | 30.0 |  |
| 180.4                                                                                                                                                                                       | 67.0                                                                                                     | 125.7 | -                                                                                                        | -     | -                                                                                                        | -     | 66.7                                                                                                     | 66.8  | 59.1                                                                                                       | 59.1  | 45.9                                                                                                       | 45.9 | 46.9                                                                                                       | 46.9  | 40.4 | 40.4 | 29.7 |  |
| 190.3                                                                                                                                                                                       | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                        | -     | 63.9                                                                                                     | 64.2  | 57.1                                                                                                       | 57.1  | 44.9                                                                                                       | 44.9 | 44.7                                                                                                       | 44.7  | 38.7 | 38.7 | 28.7 |  |
| 193.6                                                                                                                                                                                       | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                        | -     | 62.9                                                                                                     | 63.3  | 56.4                                                                                                       | 56.4  | 44.5                                                                                                       | 44.5 | 43.9                                                                                                       | 43.9  | 38.1 | 38.1 | 28.3 |  |
| 203.4                                                                                                                                                                                       | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                        | -     | 58.7                                                                                                     | 61.1  | 54.7                                                                                                       | 54.7  | -                                                                                                          | -    | 42.0                                                                                                       | 42.0  | 36.5 | 36.5 | 27.4 |  |
| 213.3                                                                                                                                                                                       | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                        | -     | 53.9                                                                                                     | 59.1  | 53.1                                                                                                       | 53.1  | -                                                                                                          | -    | 40.1                                                                                                       | 40.1  | 35.1 | 35.1 | 26.5 |  |
| 216.5                                                                                                                                                                                       | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                        | -     | 52.2                                                                                                     | 58.4  | -                                                                                                          | -     | -                                                                                                          | -    | 39.5                                                                                                       | 39.5  | 34.6 | 34.6 | 26.2 |  |
| 219.8                                                                                                                                                                                       | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                        | -     | 50.7                                                                                                     | 58.0  | -                                                                                                          | -     | -                                                                                                          | -    | 39.0                                                                                                       | 39.0  | 34.2 | 34.2 | 26.0 |  |
| 229.7                                                                                                                                                                                       | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                          | -     | -                                                                                                          | -    | 37.6                                                                                                       | 37.6  | 33.1 | 33.1 | 25.4 |  |
| 232.9                                                                                                                                                                                       | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                          | -     | -                                                                                                          | -    | 37.1                                                                                                       | 37.1  | 32.8 | 32.8 | 25.1 |  |
| 242.8                                                                                                                                                                                       | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                          | -     | -                                                                                                          | -    | 35.9                                                                                                       | 35.9  | 31.9 | 31.9 | -    |  |
| 249.3                                                                                                                                                                                       | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                          | -     | -                                                                                                          | -    | 35.1                                                                                                       | 35.1  | 31.3 | 31.3 | -    |  |
| 255.9                                                                                                                                                                                       | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                        | -     | -                                                                                                          | -     | -                                                                                                          | -    | 34.4                                                                                                       | 34.4  | -    | -    | -    |  |

|                                                                                     |      |            |            |            |            |            |            |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|
|  | 0 lb | 143,300 lb | 275,600 lb | 363,800 lb | 452,000 lb | 584,300 lb | 716,600 lb |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|



|  363,800 lb +  110,200 lb |       |                  |  36.1-62.3 ft |                  |       |  27.6 ft |       |                  |  32.2 ft/s |                  |      | 360°             |       | ASME B30.5       |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------|------------------------------------------------------------------------------------------------|------------------|-------|-------------------------------------------------------------------------------------------|-------|------------------|-----------------------------------------------------------------------------------------------|------------------|------|------------------|-------|------------------|------|
| 177.2 ft                                                                                                                                                                                    |       |                  |                                                                                                |                  |       |                                                                                           |       |                  |                                                                                               |                  |      |                  |       |                  |      |
| SSL+LF 1                                                                                                                                                                                    |       |                  |                                                                                                |                  |       |                                                                                           |       |                  |                                                                                               |                  |      |                  |       |                  |      |
| 39.4 ft                                                                                                                                                                                     |       |                  |                                                                                                |                  |       | 78.7 ft                                                                                   |       |                  |                                                                                               |                  |      | 118.1 ft         |       |                  |      |
| 0 lb - 716.6 klb                                                                                                                                                                            |       | 0 lb - 716.6 klb |                                                                                                | 0 lb - 716.6 klb |       | 0 lb - 716.6 klb                                                                          |       | 0 lb - 716.6 klb |                                                                                               | 0 lb - 716.6 klb |      | 0 lb - 716.6 klb |       | 0 lb - 716.6 klb |      |
| 15°                                                                                                                                                                                         |       | 20°              |                                                                                                | 30°              |       | 15°                                                                                       |       | 20°              |                                                                                               | 30°              |      | 15°              |       | 30°              |      |
| 1,000 lb                                                                                                                                                                                    |       |                  |                                                                                                |                  |       |                                                                                           |       |                  |                                                                                               |                  |      |                  |       |                  |      |
| 39.4                                                                                                                                                                                        | 359.4 | 359.4            | -                                                                                              | -                | -     | -                                                                                         | -     | -                | -                                                                                             | -                | -    | -                | -     | -                | -    |
| 42.7                                                                                                                                                                                        | 345.0 | 345.0            | 264.6                                                                                          | 264.6            | -     | -                                                                                         | -     | -                | -                                                                                             | -                | -    | -                | -     | -                | -    |
| 45.9                                                                                                                                                                                        | 330.7 | 330.7            | 257.9                                                                                          | 257.9            | 168.7 | 168.7                                                                                     | -     | -                | -                                                                                             | -                | -    | -                | -     | -                | -    |
| 52.5                                                                                                                                                                                        | 306.4 | 306.4            | 240.3                                                                                          | 240.3            | 160.9 | 160.9                                                                                     | 175.3 | 175.3            | -                                                                                             | -                | -    | -                | -     | -                | -    |
| 59.1                                                                                                                                                                                        | 286.6 | 286.6            | 227.1                                                                                          | 227.1            | 154.3 | 154.3                                                                                     | 163.1 | 163.1            | 127.9                                                                                         | 127.9            | -    | -                | -     | -                | -    |
| 65.6                                                                                                                                                                                        | 266.8 | 266.8            | 216.1                                                                                          | 216.1            | 147.7 | 147.7                                                                                     | 152.1 | 152.1            | 120.2                                                                                         | 120.2            | -    | -                | 109.6 | 110.2            | -    |
| 68.9                                                                                                                                                                                        | 259.0 | 259.0            | 210.5                                                                                          | 210.5            | 145.0 | 145.0                                                                                     | 147.2 | 147.2            | 116.8                                                                                         | 116.8            | 78.7 | 78.7             | 106.2 | 106.7            | -    |
| 72.2                                                                                                                                                                                        | 251.3 | 251.3            | 205.0                                                                                          | 205.0            | 142.2 | 142.2                                                                                     | 142.2 | 142.2            | 113.5                                                                                         | 113.5            | 76.9 | 76.9             | 102.7 | 103.2            | -    |
| 75.5                                                                                                                                                                                        | 241.4 | 244.7            | 200.1                                                                                          | 200.1            | 139.4 | 139.4                                                                                     | 137.8 | 137.8            | 111.1                                                                                         | 111.1            | 75.4 | 75.4             | 99.8  | 100.2            | 80.7 |
| 78.7                                                                                                                                                                                        | 231.5 | 238.1            | 195.1                                                                                          | 195.1            | 136.7 | 136.7                                                                                     | 133.4 | 133.4            | 108.7                                                                                         | 108.7            | 73.9 | 73.9             | 96.8  | 97.2             | 88.5 |
| 85.3                                                                                                                                                                                        | 207.2 | 224.9            | 186.3                                                                                          | 186.3            | 132.3 | 132.3                                                                                     | 126.8 | 126.8            | 103.4                                                                                         | 103.4            | 71.0 | 71.0             | 91.5  | 91.9             | 84.5 |
| 91.9                                                                                                                                                                                        | 185.2 | 213.8            | 178.6                                                                                          | 178.6            | 127.9 | 127.9                                                                                     | 120.2 | 120.2            | 98.5                                                                                          | 98.5             | 68.3 | 68.3             | 86.6  | 87.1             | 80.7 |
| 98.4                                                                                                                                                                                        | 167.6 | 203.9            | 168.7                                                                                          | 170.9            | 124.6 | 124.6                                                                                     | 113.5 | 113.5            | 94.1                                                                                          | 94.1             | 65.9 | 65.9             | 82.2  | 82.7             | 76.9 |
| 111.5                                                                                                                                                                                       | 141.1 | 187.0            | 142.2                                                                                          | 159.1            | 117.9 | 117.9                                                                                     | 103.8 | 103.8            | 86.8                                                                                          | 86.8             | 61.8 | 61.8             | 74.6  | 74.9             | 68.0 |
| 124.7                                                                                                                                                                                       | 118.8 | 172.3            | 119.8                                                                                          | 148.4            | 110.6 | 112.1                                                                                     | 95.2  | 95.2             | 80.2                                                                                          | 80.2             | 58.1 | 58.1             | 67.8  | 68.0             | 61.9 |
| 137.8                                                                                                                                                                                       | 100.8 | 159.8            | 101.4                                                                                          | 138.9            | 102.5 | 106.9                                                                                     | 87.5  | 87.5             | 74.5                                                                                          | 74.5             | 54.7 | 54.7             | 61.9  | 62.2             | 56.9 |
| 150.9                                                                                                                                                                                       | 87.5  | 150.3            | 88.2                                                                                           | 131.5            | 89.0  | 103.1                                                                                     | 81.6  | 81.6             | 70.1                                                                                          | 70.1             | 52.0 | 52.0             | 57.8  | 57.9             | 51.9 |
| 164.0                                                                                                                                                                                       | 76.0  | 141.8            | 76.6                                                                                           | 125.3            | 76.9  | 99.9                                                                                      | 76.3  | 76.3             | 66.1                                                                                          | 66.1             | 49.7 | 49.7             | 53.9  | 53.9             | 48.7 |
| 170.6                                                                                                                                                                                       | 71.1  | 138.2            | 71.6                                                                                           | 122.7            | 71.7  | 98.5                                                                                      | 73.9  | 73.9             | 64.2                                                                                          | 64.2             | 48.6 | 48.6             | 52.0  | 52.0             | 46.2 |
| 177.2                                                                                                                                                                                       | 66.1  | 134.5            | 66.6                                                                                           | 120.2            | -     | -                                                                                         | 71.4  | 71.4             | 62.4                                                                                          | 62.4             | 47.6 | 47.6             | 50.0  | 50.0             | 44.8 |
| 190.3                                                                                                                                                                                       | 57.9  | 128.6            | 58.0                                                                                           | 115.7            | -     | -                                                                                         | 63.5  | 67.6             | 59.5                                                                                          | 59.5             | 46.0 | 46.0             | 47.0  | 47.0             | 41.3 |
| 196.9                                                                                                                                                                                       | 53.8  | 125.7            | -                                                                                              | -                | -     | -                                                                                         | 59.5  | 65.7             | 58.0                                                                                          | 58.0             | 45.2 | 45.2             | 45.4  | 45.4             | 39.0 |
| 203.4                                                                                                                                                                                       | -     | -                | -                                                                                              | -                | -     | -                                                                                         | 56.1  | 64.2             | 55.3                                                                                          | 56.9             | 44.6 | 44.6             | 44.2  | 44.2             | 38.1 |
| 210.0                                                                                                                                                                                       | -     | -                | -                                                                                              | -                | -     | -                                                                                         | 52.6  | 62.8             | 52.5                                                                                          | 55.8             | 44.1 | 44.1             | 42.9  | 42.9             | 37.1 |
| 216.5                                                                                                                                                                                       | -     | -                | -                                                                                              | -                | -     | -                                                                                         | 49.2  | 61.3             | 49.8                                                                                          | 54.7             | -    | -                | 41.7  | 41.7             | 36.2 |
| 229.7                                                                                                                                                                                       | -     | -                | -                                                                                              | -                | -     | -                                                                                         | 43.6  | 58.9             | 43.9                                                                                          | 53.1             | -    | -                | 39.5  | 39.5             | 34.5 |
| 236.2                                                                                                                                                                                       | -     | -                | -                                                                                              | -                | -     | -                                                                                         | 40.8  | 57.8             | -                                                                                             | -                | -    | -                | 38.4  | 38.4             | 33.7 |
| 242.8                                                                                                                                                                                       | -     | -                | -                                                                                              | -                | -     | -                                                                                         | -     | -                | -                                                                                             | -                | -    | -                | 37.6  | 37.6             | 33.1 |
| 246.1                                                                                                                                                                                       | -     | -                | -                                                                                              | -                | -     | -                                                                                         | -     | -                | -                                                                                             | -                | -    | -                | 37.1  | 37.1             | 32.7 |
| 255.9                                                                                                                                                                                       | -     | -                | -                                                                                              | -                | -     | -                                                                                         | -     | -                | -                                                                                             | -                | -    | -                | 35.9  | 35.9             | 31.7 |
| 265.7                                                                                                                                                                                       | -     | -                | -                                                                                              | -                | -     | -                                                                                         | -     | -                | -                                                                                             | -                | -    | -                | 33.4  | 34.9             | 31.1 |
| 269.0                                                                                                                                                                                       | -     | -                | -                                                                                              | -                | -     | -                                                                                         | -     | -                | -                                                                                             | -                | -    | -                | 32.6  | 34.6             | -    |
| 275.6                                                                                                                                                                                       | -     | -                | -                                                                                              | -                | -     | -                                                                                         | -     | -                | -                                                                                             | -                | -    | -                | 30.9  | 34.0             | -    |

 0 lb 143,300 lb 275,600 lb 363,800 lb 452,000 lb 584,300 lb 716,600 lb

|                                                                                     |      |            |            |            |            |            |            |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|
|  | 0 lb | 143,300 lb | 275,600 lb | 363,800 lb | 452,000 lb | 584,300 lb | 716,600 lb |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|

|  363,800 lb +  110,200 lb |                                                                                   |  36.1-62.3 ft |                                                                                   |  27.6 ft |                                                                                   |  32.2 ft/s |                                                                                   | 360°                                                                              |                                                                                   | ASME B30.5                                                                        |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|
|                                                                                                            | 196.9 ft                                                                          |                                                                                                |                                                                                   |                                                                                           |                                                                                   |                                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |  |
|                                                                                                                                                                                             | SSL+LF_1                                                                          |                                                                                                |                                                                                   |                                                                                           |                                                                                   |                                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |  |
|                                                                                                                                                                                             | 39.4 ft                                                                           |                                                                                                |                                                                                   |                                                                                           |                                                                                   |                                                                                               | 78.7 ft                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 118.1 ft                                                                            |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |  |
|                                                                                                                                                                                             |  |               |  |          |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 lb                                                                                                                                                                                        |                                                                                   | 0 lb-716.6 klb                                                                                 |                                                                                   | 0 lb-716.6 klb                                                                            |                                                                                   | 0 lb-716.6 klb                                                                                |                                                                                   | 0 lb-716.6 klb                                                                    |                                                                                   | 0 lb-716.6 klb                                                                    |                                                                                   | 0 lb-716.6 klb                                                                    |                                                                                     | 0 lb-716.6 klb                                                                      |                                                                                     | 0 lb-716.6 klb                                                                      |                                                                                     |                                                                                     |  |
| 15°                                                                                                                                                                                         |                                                                                   | 20°                                                                                            |                                                                                   | 30°                                                                                       |                                                                                   | 15°                                                                                           |                                                                                   | 20°                                                                               |                                                                                   | 30°                                                                               |                                                                                   | 15°                                                                               |                                                                                     | 20°                                                                                 |                                                                                     | 30°                                                                                 |                                                                                     |                                                                                     |  |
| ft                                                                                                                                                                                          |                                                                                   | 1,000 lb                                                                                       |                                                                                   |                                                                                           |                                                                                   |                                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |  |
| 39.4                                                                                                                                                                                        | 368.2                                                                             | 368.2                                                                                          | -                                                                                 | -                                                                                         | -                                                                                 | -                                                                                             | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |                                                                                     |  |
| 42.7                                                                                                                                                                                        | 354.9                                                                             | 354.9                                                                                          | 271.2                                                                             | 271.2                                                                                     | -                                                                                 | -                                                                                             | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |                                                                                     |  |
| 45.9                                                                                                                                                                                        | 341.7                                                                             | 341.7                                                                                          | 262.4                                                                             | 262.4                                                                                     | -                                                                                 | -                                                                                             | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |                                                                                     |  |
| 49.2                                                                                                                                                                                        | 329.6                                                                             | 329.6                                                                                          | 254.6                                                                             | 254.6                                                                                     | 166.4                                                                             | 166.4                                                                                         | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |                                                                                     |  |
| 52.5                                                                                                                                                                                        | 317.5                                                                             | 317.5                                                                                          | 246.9                                                                             | 246.9                                                                                     | 162.0                                                                             | 162.0                                                                                         | 178.6                                                                             | 178.6                                                                             | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |                                                                                     |  |
| 59.1                                                                                                                                                                                        | 295.4                                                                             | 295.4                                                                                          | 233.7                                                                             | 233.7                                                                                     | 156.5                                                                             | 156.5                                                                                         | 166.4                                                                             | 166.4                                                                             | 130.1                                                                             | 130.1                                                                             | -                                                                                 | -                                                                                 | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |                                                                                     |  |
| 65.6                                                                                                                                                                                        | 277.8                                                                             | 277.8                                                                                          | 220.5                                                                             | 220.5                                                                                     | 149.9                                                                             | 149.9                                                                                         | 155.4                                                                             | 155.4                                                                             | 122.4                                                                             | 122.4                                                                             | -                                                                                 | -                                                                                 | 110.2                                                                               | 111.3                                                                               | -                                                                                   | -                                                                                   | -                                                                                   |                                                                                     |  |
| 72.2                                                                                                                                                                                        | 249.1                                                                             | 262.4                                                                                          | 211.6                                                                             | 211.6                                                                                     | 144.4                                                                             | 144.4                                                                                         | 146.6                                                                             | 146.6                                                                             | 116.8                                                                             | 116.8                                                                             | 77.6                                                                              | 77.6                                                                              | 104.1                                                                               | 104.7                                                                               | -                                                                                   | -                                                                                   | -                                                                                   |                                                                                     |  |
| 75.5                                                                                                                                                                                        | 237.0                                                                             | 254.6                                                                                          | 206.7                                                                             | 206.7                                                                                     | 142.2                                                                             | 142.2                                                                                         | 142.2                                                                             | 142.2                                                                             | 113.5                                                                             | 113.5                                                                             | 76.1                                                                              | 76.1                                                                              | 101.2                                                                               | 101.7                                                                               | 81.4                                                                                | 81.6                                                                                | -                                                                                   |                                                                                     |  |
| 78.7                                                                                                                                                                                        | 224.9                                                                             | 246.9                                                                                          | 201.7                                                                             | 201.7                                                                                     | 140.0                                                                             | 140.0                                                                                         | 137.8                                                                             | 137.8                                                                             | 110.2                                                                             | 110.2                                                                             | 74.5                                                                              | 74.5                                                                              | 98.3                                                                                | 98.8                                                                                | 79.1                                                                                | 79.6                                                                                | -                                                                                   |                                                                                     |  |
| 85.3                                                                                                                                                                                        | 203.9                                                                             | 235.9                                                                                          | 192.9                                                                             | 192.9                                                                                     | 135.6                                                                             | 135.6                                                                                         | 131.2                                                                             | 131.2                                                                             | 105.8                                                                             | 105.8                                                                             | 71.9                                                                              | 71.9                                                                              | 93.0                                                                                | 93.7                                                                                | 75.4                                                                                | 75.6                                                                                | -                                                                                   |                                                                                     |  |
| 91.9                                                                                                                                                                                        | 183.0                                                                             | 222.7                                                                                          | 184.1                                                                             | 185.2                                                                                     | 131.2                                                                             | 131.2                                                                                         | 124.6                                                                             | 124.6                                                                             | 101.2                                                                             | 101.2                                                                             | 69.4                                                                              | 69.4                                                                              | 88.6                                                                                | 89.1                                                                                | 72.1                                                                                | 72.3                                                                                | -                                                                                   |                                                                                     |  |
| 95.1                                                                                                                                                                                        | 173.6                                                                             | 218.3                                                                                          | 175.3                                                                             | 181.3                                                                                     | 129.0                                                                             | 129.0                                                                                         | 121.3                                                                             | 121.3                                                                             | 99.1                                                                              | 99.1                                                                              | 68.2                                                                              | 68.2                                                                              | 86.4                                                                                | 86.9                                                                                | 70.5                                                                                | 70.8                                                                                | 47.0                                                                                |                                                                                     |  |
| 98.4                                                                                                                                                                                        | 164.2                                                                             | 213.8                                                                                          | 166.4                                                                             | 177.5                                                                                     | 126.8                                                                             | 126.8                                                                                         | 117.9                                                                             | 117.9                                                                             | 97.0                                                                              | 97.0                                                                              | 67.0                                                                              | 67.0                                                                              | 84.2                                                                                | 84.7                                                                                | 69.0                                                                                | 69.2                                                                                | 46.1                                                                                |                                                                                     |  |
| 111.5                                                                                                                                                                                       | 137.8                                                                             | 196.9                                                                                          | 139.3                                                                             | 165.7                                                                                     | 120.2                                                                             | 120.2                                                                                         | 108.2                                                                             | 108.2                                                                             | 89.7                                                                              | 89.7                                                                              | 62.9                                                                              | 62.9                                                                              | 76.7                                                                                | 77.0                                                                                | 63.4                                                                                | 63.6                                                                                | 43.0                                                                                |                                                                                     |  |
| 124.7                                                                                                                                                                                       | 115.5                                                                             | 181.9                                                                                          | 116.5                                                                             | 155.1                                                                                     | 111.0                                                                             | 114.6                                                                                         | 99.5                                                                              | 99.5                                                                              | 83.1                                                                              | 83.1                                                                              | 59.2                                                                              | 59.2                                                                              | 70.0                                                                                | 70.2                                                                                | 58.4                                                                                | 58.6                                                                                | 40.1                                                                                |                                                                                     |  |
| 137.8                                                                                                                                                                                       | 97.4                                                                              | 168.7                                                                                          | 98.1                                                                              | 145.5                                                                                     | 99.4                                                                              | 110.0                                                                                         | 91.7                                                                              | 91.7                                                                              | 77.4                                                                              | 77.4                                                                              | 56.0                                                                              | 56.0                                                                              | 63.9                                                                                | 64.2                                                                                | 54.0                                                                                | 54.2                                                                                | 37.5                                                                                |                                                                                     |  |
| 150.9                                                                                                                                                                                       | 84.2                                                                              | 158.4                                                                                          | 84.9                                                                              | 137.4                                                                                     | 85.9                                                                              | 105.9                                                                                         | 85.5                                                                              | 85.5                                                                              | 72.8                                                                              | 72.8                                                                              | 53.4                                                                              | 53.4                                                                              | 59.7                                                                                | 59.9                                                                                | 50.5                                                                                | 50.6                                                                                | 35.4                                                                                |                                                                                     |  |
| 164.0                                                                                                                                                                                       | 72.4                                                                              | 149.2                                                                                          | 73.0                                                                              | 130.4                                                                                     | 73.9                                                                              | 102.4                                                                                         | 77.7                                                                              | 80.0                                                                              | 68.6                                                                              | 68.6                                                                              | 51.0                                                                              | 51.0                                                                              | 55.8                                                                                | 55.9                                                                                | 47.3                                                                                | 47.3                                                                                | 33.5                                                                                |                                                                                     |  |
| 177.2                                                                                                                                                                                       | 61.9                                                                              | 141.1                                                                                          | 62.4                                                                              | 124.6                                                                                     | 63.3                                                                              | 99.4                                                                                          | 68.3                                                                              | 75.0                                                                              | 64.8                                                                              | 64.8                                                                              | 48.9                                                                              | 48.9                                                                              | 52.2                                                                                | 52.2                                                                                | 44.3                                                                                | 44.3                                                                                | 31.7                                                                                |                                                                                     |  |
| 183.7                                                                                                                                                                                       | 57.8                                                                              | 137.8                                                                                          | 58.3                                                                              | 122.4                                                                                     | 58.6                                                                              | 98.1                                                                                          | 64.2                                                                              | 73.0                                                                              | 62.1                                                                              | 63.3                                                                              | 48.1                                                                              | 48.1                                                                              | 50.7                                                                                | 50.7                                                                                | 43.1                                                                                | 43.1                                                                                | 31.0                                                                                |                                                                                     |  |
| 190.3                                                                                                                                                                                       | 53.7                                                                              | 134.5                                                                                          | 54.2                                                                              | 120.2                                                                                     | -                                                                                 | -                                                                                             | 60.0                                                                              | 71.0                                                                              | 59.4                                                                              | 61.9                                                                              | 47.2                                                                              | 47.2                                                                              | 49.2                                                                                | 49.2                                                                                | 41.8                                                                                | 41.8                                                                                | 30.3                                                                                |                                                                                     |  |
| 203.4                                                                                                                                                                                       | 46.4                                                                              | 129.0                                                                                          | 46.5                                                                              | 116.5                                                                                     | -                                                                                 | -                                                                                             | 52.3                                                                              | 67.4                                                                              | 53.1                                                                              | 59.2                                                                              | 45.7                                                                              | 45.7                                                                              | 46.3                                                                                | 46.3                                                                                | 39.5                                                                                | 39.5                                                                                | 29.0                                                                                |                                                                                     |  |
| 206.7                                                                                                                                                                                       | 44.8                                                                              | 127.9                                                                                          | 44.8                                                                              | 115.7                                                                                     | -                                                                                 | -                                                                                             | 50.6                                                                              | 66.6                                                                              | 51.4                                                                              | 58.5                                                                              | 45.4                                                                              | 45.4                                                                              | 45.6                                                                                | 45.6                                                                                | 39.0                                                                                | 39.0                                                                                | 28.7                                                                                |                                                                                     |  |
| 216.5                                                                                                                                                                                       | 39.9                                                                              | 124.6                                                                                          | -                                                                                 | -                                                                                         | -                                                                                 | -                                                                                             | 45.4                                                                              | 64.2                                                                              | 46.1                                                                              | 56.7                                                                              | 44.5                                                                              | 44.5                                                                              | 43.7                                                                                | 43.7                                                                                | 37.5                                                                                | 37.5                                                                                | 27.8                                                                                |                                                                                     |  |
| 223.1                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -                                                                                 | -                                                                                         | -                                                                                 | -                                                                                             | 42.6                                                                              | 62.8                                                                              | 43.2                                                                              | 55.7                                                                              | 43.9                                                                              | 43.9                                                                              | 42.5                                                                                | 42.5                                                                                | 36.7                                                                                | 36.7                                                                                | 27.3                                                                                |                                                                                     |  |
| 229.7                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -                                                                                 | -                                                                                         | -                                                                                 | -                                                                                             | 39.8                                                                              | 61.5                                                                              | 40.3                                                                              | 54.7                                                                              | -                                                                                 | -                                                                                 | 41.4                                                                                | 41.4                                                                                | 35.9                                                                                | 35.9                                                                                | 26.7                                                                                |                                                                                     |  |
| 242.8                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -                                                                                 | -                                                                                         | -                                                                                 | -                                                                                             | 34.7                                                                              | 59.2                                                                              | 35.0                                                                              | 53.2                                                                              | -                                                                                 | -                                                                                 | 38.1                                                                                | 39.5                                                                                | 34.4                                                                                | 34.4                                                                                | 25.9                                                                                |                                                                                     |  |
| 246.1                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -                                                                                 | -                                                                                         | -                                                                                 | -                                                                                             | 33.5                                                                              | 58.7                                                                              | 33.7                                                                              | 52.9                                                                              | -                                                                                 | -                                                                                 | 37.0                                                                                | 39.0                                                                                | 34.1                                                                                | 34.1                                                                                | 25.7                                                                                |                                                                                     |  |
| 252.6                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -                                                                                 | -                                                                                         | -                                                                                 | -                                                                                             | 31.1                                                                              | 57.8                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 34.8                                                                                | 38.1                                                                                | 33.4                                                                                | 33.4                                                                                | 25.3                                                                                |                                                                                     |  |
| 255.9                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -                                                                                 | -                                                                                         | -                                                                                 | -                                                                                             | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 33.7                                                                                | 37.7                                                                                | 33.1                                                                                | 33.1                                                                                | 25.1                                                                                |                                                                                     |  |
| 262.5                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -                                                                                 | -                                                                                         | -                                                                                 | -                                                                                             | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 31.6                                                                                | 37.0                                                                                | 31.4                                                                                | 32.5                                                                                | 24.9                                                                                |                                                                                     |  |
| 269.0                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -                                                                                 | -                                                                                         | -                                                                                 | -                                                                                             | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 29.5                                                                                | 36.2                                                                                | 29.7                                                                                | 31.9                                                                                | -                                                                                   |                                                                                     |  |
| 282.2                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -                                                                                 | -                                                                                         | -                                                                                 | -                                                                                             | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 25.6                                                                                | 34.9                                                                                | 26.0                                                                                | 30.9                                                                                | -                                                                                   |                                                                                     |  |
| 292.0                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -                                                                                 | -                                                                                         | -                                                                                 | -                                                                                             | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 22.9                                                                                | 34.0                                                                                | -                                                                                   | -                                                                                   | -                                                                                   |                                                                                     |  |

|                                                                                     |      |            |            |            |            |            |            |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|
|  | 0 lb | 143,300 lb | 275,600 lb | 363,800 lb | 452,000 lb | 584,300 lb | 716,600 lb |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|

| <div><div><div></div></div>363,800 lb + <div><div><div></div></div>110,200 lb</div><div><div><div></div></div>36.1-62.3 ft</div><div><div><div></div></div>27.6 ft</div><div><div><div></div></div>32.2 ft/s</div><div>360°</div><div>ASME B30.5</div></div> |                                      |                            |                                      |                            |                                      |                            |                                      |                            |                                      |                            |                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|--------------------------------------|
| 216.5 ft                                                                                                                                                                                                                                                     |                                      |                            |                                      |                            |                                      |                            |                                      |                            |                                      |                            |                                      |
| SSL+LF_1                                                                                                                                                                                                                                                     |                                      |                            |                                      |                            |                                      |                            |                                      |                            |                                      |                            |                                      |
| 39.4 ft                                                                                                                                                                                                                                                      |                                      |                            |                                      |                            |                                      | 78.7 ft                    |                                      |                            | 118.1 ft                             |                            |                                      |
| <div><div></div></div> 0 lb                                                                                                                                                                                                                                  | <div><div>0 lb-716.6 klb</div></div> | <div><div>0 lb</div></div> | <div><div>0 lb-716.6 klb</div></div> | <div><div>0 lb</div></div> | <div><div>0 lb-716.6 klb</div></div> | <div><div>0 lb</div></div> | <div><div>0 lb-716.6 klb</div></div> | <div><div>0 lb</div></div> | <div><div>0 lb-716.6 klb</div></div> | <div><div>0 lb</div></div> | <div><div>0 lb-716.6 klb</div></div> |
| <div><div></div></div> 15°                                                                                                                                                                                                                                   | <div><div></div></div> 20°           | <div><div></div></div> 30° | <div><div></div></div> 15°           | <div><div></div></div> 20° | <div><div></div></div> 30°           | <div><div></div></div> 15° | <div><div></div></div> 20°           | <div><div></div></div> 30° | <div><div></div></div> 15°           | <div><div></div></div> 20° | <div><div></div></div> 30°           |
| 1,000 lb                                                                                                                                                                                                                                                     |                                      |                            |                                      |                            |                                      |                            |                                      |                            |                                      |                            |                                      |
| 42.7                                                                                                                                                                                                                                                         | 361.6                                | 361.6                      | -                                    | -                          | -                                    | -                          | -                                    | -                          | -                                    | -                          | -                                    |
| 45.9                                                                                                                                                                                                                                                         | 348.3                                | 348.3                      | 266.8                                | 266.8                      | -                                    | -                          | -                                    | -                          | -                                    | -                          | -                                    |
| 52.5                                                                                                                                                                                                                                                         | 326.3                                | 326.3                      | 251.3                                | 251.3                      | 164.2                                | 164.2                      | -                                    | -                          | -                                    | -                          | -                                    |
| 55.8                                                                                                                                                                                                                                                         | 313.1                                | 316.4                      | 244.7                                | 244.7                      | 160.9                                | 160.9                      | 175.3                                | 175.3                      | -                                    | -                          | -                                    |
| 59.1                                                                                                                                                                                                                                                         | 299.8                                | 306.4                      | 238.1                                | 238.1                      | 157.6                                | 157.6                      | 169.8                                | 169.8                      | -                                    | -                          | -                                    |
| 62.3                                                                                                                                                                                                                                                         | 283.3                                | 296.5                      | 232.6                                | 232.6                      | 154.9                                | 154.9                      | 164.8                                | 164.8                      | 127.9                                | 127.9                      | -                                    |
| 65.6                                                                                                                                                                                                                                                         | 266.8                                | 286.6                      | 227.1                                | 227.1                      | 152.1                                | 152.1                      | 159.8                                | 159.8                      | 124.6                                | 124.6                      | -                                    |
| 68.9                                                                                                                                                                                                                                                         | 253.5                                | 278.9                      | 222.1                                | 222.1                      | 149.9                                | 149.9                      | 154.9                                | 154.9                      | 121.3                                | 121.3                      | -                                    |
| 72.2                                                                                                                                                                                                                                                         | 240.3                                | 271.2                      | 217.2                                | 217.2                      | 147.7                                | 147.7                      | 149.9                                | 149.9                      | 117.9                                | 117.9                      | -                                    |
| 75.5                                                                                                                                                                                                                                                         | 229.3                                | 264.6                      | 212.2                                | 212.2                      | 145.0                                | 145.0                      | 146.1                                | 146.1                      | 115.2                                | 115.2                      | 76.7                                 |
| 78.7                                                                                                                                                                                                                                                         | 218.3                                | 257.9                      | 207.2                                | 207.2                      | 142.2                                | 142.2                      | 142.2                                | 142.2                      | 112.4                                | 112.4                      | 75.2                                 |
| 85.3                                                                                                                                                                                                                                                         | 198.4                                | 244.7                      | 199.5                                | 199.5                      | 137.8                                | 137.8                      | 134.5                                | 134.5                      | 108.2                                | 108.2                      | 72.8                                 |
| 91.9                                                                                                                                                                                                                                                         | 180.8                                | 233.7                      | 183.0                                | 190.7                      | 133.4                                | 133.4                      | 127.9                                | 127.9                      | 103.6                                | 103.6                      | 70.3                                 |
| 98.4                                                                                                                                                                                                                                                         | 163.1                                | 222.7                      | 164.2                                | 184.1                      | 130.1                                | 130.1                      | 122.4                                | 122.4                      | 99.4                                 | 99.4                       | 67.9                                 |
| 111.5                                                                                                                                                                                                                                                        | 136.0                                | 205.8                      | 137.1                                | 171.6                      | 123.5                                | 123.5                      | 112.4                                | 112.4                      | 92.2                                 | 92.2                       | 63.9                                 |
| 124.7                                                                                                                                                                                                                                                        | 113.4                                | 190.7                      | 114.4                                | 160.6                      | 112.7                                | 117.6                      | 103.4                                | 103.4                      | 85.8                                 | 85.8                       | 60.4                                 |
| 137.8                                                                                                                                                                                                                                                        | 95.5                                 | 177.5                      | 96.3                                 | 151.0                      | 97.9                                 | 112.4                      | 95.5                                 | 95.5                       | 80.0                                 | 80.0                       | 57.3                                 |
| 150.9                                                                                                                                                                                                                                                        | 82.2                                 | 166.4                      | 83.0                                 | 142.9                      | 84.2                                 | 108.5                      | 86.5                                 | 89.1                       | 75.3                                 | 75.3                       | 54.7                                 |
| 164.0                                                                                                                                                                                                                                                        | 70.3                                 | 156.5                      | 70.9                                 | 136.0                      | 71.9                                 | 104.9                      | 76.9                                 | 83.5                       | 71.1                                 | 71.1                       | 52.2                                 |
| 177.2                                                                                                                                                                                                                                                        | 59.5                                 | 147.7                      | 60.2                                 | 130.1                      | 61.1                                 | 101.6                      | 66.6                                 | 78.5                       | 67.2                                 | 67.2                       | 50.0                                 |
| 190.3                                                                                                                                                                                                                                                        | 51.3                                 | 141.1                      | 51.8                                 | 124.9                      | 52.5                                 | 99.1                       | 57.9                                 | 74.2                       | 58.9                                 | 64.2                       | 48.3                                 |
| 200.1                                                                                                                                                                                                                                                        | 45.5                                 | 136.5                      | 46.0                                 | 121.4                      | 46.5                                 | 97.4                       | 51.8                                 | 71.2                       | 52.9                                 | 61.9                       | 47.1                                 |
| 203.4                                                                                                                                                                                                                                                        | 43.9                                 | 135.2                      | 44.3                                 | 120.5                      | -                                    | -                          | 50.1                                 | 70.4                       | 51.1                                 | 61.3                       | 46.7                                 |
| 216.5                                                                                                                                                                                                                                                        | 37.3                                 | 130.1                      | 37.7                                 | 116.8                      | -                                    | -                          | 43.2                                 | 67.0                       | 44.1                                 | 58.6                       | 45.4                                 |
| 223.1                                                                                                                                                                                                                                                        | 34.6                                 | 127.9                      | 34.8                                 | 114.6                      | -                                    | -                          | 40.3                                 | 65.6                       | 41.2                                 | 57.6                       | 42.4                                 |
| 229.7                                                                                                                                                                                                                                                        | 32.0                                 | 125.7                      | -                                    | -                          | -                                    | -                          | 37.5                                 | 64.2                       | 38.2                                 | 56.6                       | 39.4                                 |
| 232.9                                                                                                                                                                                                                                                        | 30.6                                 | 124.6                      | -                                    | -                          | -                                    | -                          | 36.0                                 | 63.5                       | 36.7                                 | 56.1                       | 37.9                                 |
| 236.2                                                                                                                                                                                                                                                        | -                                    | -                          | -                                    | -                          | -                                    | -                          | 34.6                                 | 62.8                       | 35.3                                 | 55.6                       | 36.4                                 |
| 242.8                                                                                                                                                                                                                                                        | -                                    | -                          | -                                    | -                          | -                                    | -                          | 32.3                                 | 61.7                       | 32.8                                 | 54.8                       | -                                    |
| 255.9                                                                                                                                                                                                                                                        | -                                    | -                          | -                                    | -                          | -                                    | -                          | 27.6                                 | 59.5                       | 28.0                                 | 53.4                       | -                                    |
| 262.5                                                                                                                                                                                                                                                        | -                                    | -                          | -                                    | -                          | -                                    | -                          | 25.6                                 | 58.6                       | 26.0                                 | 52.7                       | -                                    |
| 269.0                                                                                                                                                                                                                                                        | -                                    | -                          | -                                    | -                          | -                                    | -                          | 23.6                                 | 57.8                       | -                                    | -                          | -                                    |
| 275.6                                                                                                                                                                                                                                                        | -                                    | -                          | -                                    | -                          | -                                    | -                          | -                                    | -                          | -                                    | -                          | -                                    |
| 282.2                                                                                                                                                                                                                                                        | -                                    | -                          | -                                    | -                          | -                                    | -                          | -                                    | -                          | -                                    | -                          | -                                    |
| 295.3                                                                                                                                                                                                                                                        | -                                    | -                          | -                                    | -                          | -                                    | -                          | -                                    | -                          | -                                    | -                          | -                                    |
| 298.6                                                                                                                                                                                                                                                        | -                                    | -                          | -                                    | -                          | -                                    | -                          | -                                    | -                          | -                                    | -                          | -                                    |
| 308.4                                                                                                                                                                                                                                                        | -                                    | -                          | -                                    | -                          | -                                    | -                          | -                                    | -                          | -                                    | -                          | -                                    |

0 lb

143,300 lb

275,600 lb

363,800 lb

452,000 lb

584,300 lb

716,600 lb

|                                                                                     |      |            |            |            |            |            |            |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|
|  | 0 lb | 143,300 lb | 275,600 lb | 363,800 lb | 452,000 lb | 584,300 lb | 716,600 lb |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|

|  363,800 lb +  110,200 lb |                                                                                   |  36.1-62.3 ft |                       |  27.6 ft |                       |  32.2 ft/s |                       | 360°                  |                       | ASME B30.5            |                       |                       |          |       |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|-------|------|
|                                                                                                            | 236.2 ft                                                                          |                                                                                                |                       |                                                                                           |                       |                                                                                               |                       |                       |                       |                       |                       |                       |          |       |      |
|                                                                                                            | SSL+LF_1                                                                          |                                                                                                |                       |                                                                                           |                       |                                                                                               |                       |                       |                       |                       |                       |                       |          |       |      |
|                                                                                                            | 39.4 ft                                                                           |                                                                                                |                       |                                                                                           | 78.7 ft               |                                                                                               |                       |                       | 118.1 ft              |                       |                       |                       |          |       |      |
|                                                                                                            |  | 0 lb-<br>716.6<br>klb                                                                          | 0 lb-<br>716.6<br>klb | 0 lb-<br>716.6<br>klb                                                                     | 0 lb-<br>716.6<br>klb | 0 lb-<br>716.6<br>klb                                                                         | 0 lb-<br>716.6<br>klb | 0 lb-<br>716.6<br>klb | 0 lb-<br>716.6<br>klb | 0 lb-<br>716.6<br>klb | 0 lb-<br>716.6<br>klb | 0 lb-<br>716.6<br>klb |          |       |      |
|                                                                                                            |  | 15°                                                                                            | 20°                   | 30°                                                                                       | 15°                   | 20°                                                                                           | 30°                   | 15°                   | 20°                   | 30°                   |                       |                       |          |       |      |
| ft                                                                                                                                                                                          |                                                                                   |                                                                                                |                       |                                                                                           |                       |                                                                                               |                       |                       |                       |                       |                       |                       | 1,000 lb |       |      |
| 42.7                                                                                                                                                                                        | 368.2                                                                             | 368.2                                                                                          | -                     | -                                                                                         | -                     | -                                                                                             | -                     | -                     | -                     | -                     | -                     | -                     | -        | -     |      |
| 45.9                                                                                                                                                                                        | 357.1                                                                             | 357.1                                                                                          | 269.0                 | 269.0                                                                                     | -                     | -                                                                                             | -                     | -                     | -                     | -                     | -                     | -                     | -        | -     |      |
| 52.5                                                                                                                                                                                        | 326.3                                                                             | 332.9                                                                                          | 255.7                 | 255.7                                                                                     | 165.3                 | 165.3                                                                                         | -                     | -                     | -                     | -                     | -                     | -                     | -        | -     |      |
| 55.8                                                                                                                                                                                        | 307.5                                                                             | 323.0                                                                                          | 249.1                 | 249.1                                                                                     | 162.6                 | 162.6                                                                                         | 178.6                 | 178.6                 | -                     | -                     | -                     | -                     | -        | -     |      |
| 59.1                                                                                                                                                                                        | 288.8                                                                             | 313.1                                                                                          | 242.5                 | 242.5                                                                                     | 159.8                 | 159.8                                                                                         | 173.1                 | 173.1                 | -                     | -                     | -                     | -                     | -        | -     |      |
| 62.3                                                                                                                                                                                        | 273.4                                                                             | 304.2                                                                                          | 237.0                 | 237.0                                                                                     | 157.1                 | 157.1                                                                                         | 168.1                 | 168.1                 | 129.0                 | 129.0                 | -                     | -                     | -        | -     |      |
| 65.6                                                                                                                                                                                        | 257.9                                                                             | 295.4                                                                                          | 231.5                 | 231.5                                                                                     | 154.3                 | 154.3                                                                                         | 163.1                 | 163.1                 | 125.7                 | 125.7                 | -                     | -                     | -        | -     |      |
| 68.9                                                                                                                                                                                        | 244.7                                                                             | 287.7                                                                                          | 227.1                 | 227.1                                                                                     | 151.6                 | 151.6                                                                                         | 158.7                 | 158.7                 | 122.9                 | 122.9                 | -                     | -                     | 109.1    | 109.6 | -    |
| 72.2                                                                                                                                                                                        | 231.5                                                                             | 280.0                                                                                          | 222.7                 | 222.7                                                                                     | 148.8                 | 148.8                                                                                         | 154.3                 | 154.3                 | 120.2                 | 120.2                 | -                     | -                     | 106.3    | 106.7 | -    |
| 75.5                                                                                                                                                                                        | 220.5                                                                             | 273.4                                                                                          | 217.2                 | 217.7                                                                                     | 146.6                 | 146.6                                                                                         | 149.9                 | 149.9                 | 117.4                 | 117.4                 | 77.2                  | 77.2                  | 103.5    | 103.9 | -    |
| 78.7                                                                                                                                                                                        | 209.4                                                                             | 266.8                                                                                          | 211.6                 | 212.7                                                                                     | 144.4                 | 144.4                                                                                         | 145.5                 | 145.5                 | 114.6                 | 114.6                 | 75.8                  | 75.8                  | 100.8    | 101.2 | 80.2 |
| 85.3                                                                                                                                                                                        | 190.7                                                                             | 253.5                                                                                          | 192.9                 | 205.0                                                                                     | 140.0                 | 140.0                                                                                         | 138.9                 | 138.9                 | 110.2                 | 110.2                 | 73.4                  | 73.4                  | 95.7     | 96.1  | 76.7 |
| 91.9                                                                                                                                                                                        | 174.2                                                                             | 242.5                                                                                          | 175.3                 | 196.2                                                                                     | 136.7                 | 136.7                                                                                         | 132.3                 | 132.3                 | 105.8                 | 105.8                 | 71.0                  | 71.0                  | 91.3     | 91.7  | 73.4 |
| 98.4                                                                                                                                                                                        | 158.7                                                                             | 231.5                                                                                          | 160.9                 | 189.6                                                                                     | 132.3                 | 132.3                                                                                         | 125.7                 | 125.7                 | 101.6                 | 101.6                 | 68.8                  | 68.8                  | 87.3     | 87.7  | 70.5 |
| 111.5                                                                                                                                                                                       | 132.3                                                                             | 213.8                                                                                          | 133.7                 | 177.1                                                                                     | 125.7                 | 125.7                                                                                         | 115.4                 | 115.4                 | 94.6                  | 94.6                  | 65.0                  | 65.0                  | 80.2     | 80.5  | 65.8 |
| 124.7                                                                                                                                                                                       | 110.1                                                                             | 198.4                                                                                          | 111.1                 | 166.1                                                                                     | 113.2                 | 119.8                                                                                         | 106.6                 | 106.6                 | 88.2                  | 88.2                  | 61.5                  | 61.5                  | 73.8     | 74.0  | 60.7 |
| 137.8                                                                                                                                                                                       | 92.2                                                                              | 185.2                                                                                          | 93.0                  | 156.5                                                                                     | 94.8                  | 114.6                                                                                         | 99.2                  | 99.2                  | 82.5                  | 82.5                  | 58.4                  | 58.4                  | 67.9     | 68.1  | 56.4 |
| 150.9                                                                                                                                                                                       | 78.3                                                                              | 174.2                                                                                          | 79.2                  | 148.4                                                                                     | 80.8                  | 110.8                                                                                         | 85.8                  | 92.7                  | 77.7                  | 77.7                  | 55.8                  | 55.8                  | 63.2     | 63.4  | 52.9 |
| 164.0                                                                                                                                                                                       | 66.1                                                                              | 164.2                                                                                          | 66.9                  | 141.1                                                                                     | 68.3                  | 107.2                                                                                         | 73.8                  | 86.9                  | 71.7                  | 73.5                  | 53.4                  | 53.4                  | 59.1     | 59.4  | 49.8 |
| 177.2                                                                                                                                                                                       | 55.6                                                                              | 155.4                                                                                          | 56.2                  | 134.5                                                                                     | 57.3                  | 103.8                                                                                         | 63.1                  | 81.8                  | 64.4                  | 69.7                  | 51.1                  | 51.1                  | 55.6     | 56.0  | 47.2 |
| 190.3                                                                                                                                                                                       | 47.2                                                                              | 148.1                                                                                          | 47.7                  | 129.3                                                                                     | 48.6                  | 101.0                                                                                         | 54.4                  | 77.4                  | 55.6                  | 66.4                  | 49.4                  | 49.4                  | 52.8     | 53.1  | 44.7 |
| 203.4                                                                                                                                                                                       | 39.7                                                                              | 141.5                                                                                          | 40.1                  | 124.6                                                                                     | 40.9                  | 98.7                                                                                          | 46.5                  | 73.4                  | 47.6                  | 63.4                  | 46.4                  | 47.8                  | 49.0     | 50.2  | 42.4 |
| 213.3                                                                                                                                                                                       | 34.7                                                                              | 137.1                                                                                          | 35.2                  | 121.3                                                                                     | 35.7                  | 97.2                                                                                          | 41.2                  | 70.8                  | 42.3                  | 61.3                  | 43.4                  | 46.7                  | 45.5     | 48.1  | 40.9 |
| 216.5                                                                                                                                                                                       | 33.1                                                                              | 135.6                                                                                          | 33.5                  | 120.2                                                                                     | -                     | -                                                                                             | 39.5                  | 69.9                  | 40.6                  | 60.6                  | 42.3                  | 46.3                  | 44.3     | 47.4  | 40.3 |
| 229.7                                                                                                                                                                                       | 27.6                                                                              | 130.4                                                                                          | 28.1                  | 117.2                                                                                     | -                     | -                                                                                             | 33.7                  | 66.8                  | 34.7                  | 58.4                  | 36.2                  | 45.1                  | 38.4     | 45.0  | 38.0 |
| 239.5                                                                                                                                                                                       | 23.8                                                                              | 127.0                                                                                          | 24.0                  | 114.6                                                                                     | -                     | -                                                                                             | 29.7                  | 64.7                  | 30.5                  | 56.9                  | 31.7                  | 44.3                  | 34.2     | 43.4  | 35.5 |
| 242.8                                                                                                                                                                                       | 22.7                                                                              | 126.2                                                                                          | -                     | -                                                                                         | -                     | -                                                                                             | 28.5                  | 64.1                  | 29.3                  | 56.4                  | 30.4                  | 44.1                  | 33.0     | 42.8  | 34.2 |
| 249.3                                                                                                                                                                                       | 20.5                                                                              | 124.6                                                                                          | -                     | -                                                                                         | -                     | -                                                                                             | 26.2                  | 62.9                  | 26.9                  | 55.6                  | 27.8                  | 43.7                  | 30.5     | 41.8  | 31.7 |
| 252.6                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -                     | -                                                                                         | -                     | -                                                                                             | 25.0                  | 62.3                  | 25.7                  | 55.1                  | 24.0                  | 43.4                  | 29.2     | 41.3  | 30.4 |
| 255.9                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -                     | -                                                                                         | -                     | -                                                                                             | 23.8                  | 61.7                  | 24.5                  | 54.7                  | -                     | -                     | 28.0     | 40.8  | 29.1 |
| 269.0                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -                     | -                                                                                         | -                     | -                                                                                             | 19.7                  | 59.7                  | 20.4                  | 53.4                  | -                     | -                     | 23.9     | 39.2  | 24.8 |
| 278.9                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -                     | -                                                                                         | -                     | -                                                                                             | 16.8                  | 58.3                  | 17.2                  | 52.5                  | -                     | -                     | 20.9     | 38.0  | 21.8 |
| 282.2                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -                     | -                                                                                         | -                     | -                                                                                             | 16.0                  | 58.0                  | -                     | -                     | -                     | -                     | 20.0     | 37.6  | 20.9 |
| 288.7                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -                     | -                                                                                         | -                     | -                                                                                             | 14.3                  | 57.3                  | -                     | -                     | -                     | -                     | 18.2     | 36.9  | 19.0 |
| 295.3                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -                     | -                                                                                         | -                     | -                                                                                             | -                     | -                     | -                     | -                     | -                     | -                     | 16.3     | 36.2  | 17.2 |
| 308.4                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -                     | -                                                                                         | -                     | -                                                                                             | -                     | -                     | -                     | -                     | -                     | -                     | 13.2     | 35.1  | 13.8 |
| 315.0                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -                     | -                                                                                         | -                     | -                                                                                             | -                     | -                     | -                     | -                     | -                     | -                     | 11.7     | 34.6  | 12.1 |
| 321.5                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -                     | -                                                                                         | -                     | -                                                                                             | -                     | -                     | -                     | -                     | -                     | -                     | 10.2     | 34.2  | -    |
| 324.8                                                                                                                                                                                       | -                                                                                 | -                                                                                              | -                     | -                                                                                         | -                     | -                                                                                             | -                     | -                     | -                     | -                     | -                     | -                     | 9.5      | 34.0  | -    |

|                                                                                     |      |            |            |            |            |            |            |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|
|  | 0 lb | 143,300 lb | 275,600 lb | 363,800 lb | 452,000 lb | 584,300 lb | 716,600 lb |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|

| <div><div><div><div></div><div>363,800 lb + <div><div></div><div></div></div>110,200 lb</div><div><div></div><div>36.1-62.3 ft</div></div><div><div></div><div>27.6 ft</div></div><div><div></div><div>32.2 ft/s</div></div><div>360°</div><div>ASME B30.5</div></div></div></div> |                                       |                                      |                                       |                                      |                                       |                                      |                                       |                                      |                                       |                                      |                                       |                                      |                                       |                                      |                                       |                                      |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|--|--|--|
| <div><div></div><div></div></div>                                                                                                                                                                                                                                                  | 255.9 ft                              |                                      |                                       |                                      |                                       |                                      |                                       |                                      |                                       |                                      |                                       |                                      |                                       |                                      |                                       |                                      |  |  |  |
| <div><div></div><div></div></div>                                                                                                                                                                                                                                                  | SSL+LF_1                              |                                      |                                       |                                      |                                       |                                      |                                       |                                      |                                       |                                      |                                       |                                      |                                       |                                      |                                       |                                      |  |  |  |
| <div><div></div><div></div></div>                                                                                                                                                                                                                                                  | 39.4 ft                               |                                      |                                       |                                      |                                       | 78.7 ft                              |                                       |                                      |                                       |                                      | 118.1 ft                              |                                      |                                       |                                      |                                       |                                      |  |  |  |
| <div><div></div><div></div></div>                                                                                                                                                                                                                                                  | <div><div></div><div>0 lb</div></div> | <div><div>0 lb-716.6 klb</div></div> | <div><div></div><div>0 lb</div></div> | <div><div>0 lb-716.6 klb</div></div> | <div><div></div><div>0 lb</div></div> | <div><div>0 lb-716.6 klb</div></div> | <div><div></div><div>0 lb</div></div> | <div><div>0 lb-716.6 klb</div></div> | <div><div></div><div>0 lb</div></div> | <div><div>0 lb-716.6 klb</div></div> | <div><div></div><div>0 lb</div></div> | <div><div>0 lb-716.6 klb</div></div> | <div><div></div><div>0 lb</div></div> | <div><div>0 lb-716.6 klb</div></div> | <div><div></div><div>0 lb</div></div> | <div><div>0 lb-716.6 klb</div></div> |  |  |  |
| <div><div></div><div></div></div>                                                                                                                                                                                                                                                  | <div><div></div><div>15°</div></div>  |                                      | <div><div></div><div>20°</div></div>  |                                      | <div><div></div><div>30°</div></div>  |                                      | <div><div></div><div>15°</div></div>  |                                      | <div><div></div><div>20°</div></div>  |                                      | <div><div></div><div>30°</div></div>  |                                      | <div><div></div><div>15°</div></div>  |                                      | <div><div></div><div>20°</div></div>  | <div><div></div><div>30°</div></div> |  |  |  |
| ft                                                                                                                                                                                                                                                                                 | 1,000 lb                              |                                      |                                       |                                      |                                       |                                      |                                       |                                      |                                       |                                      |                                       |                                      |                                       |                                      |                                       |                                      |  |  |  |
| 45.9                                                                                                                                                                                                                                                                               | 359.4                                 | 363.8                                | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    |  |  |  |
| 49.2                                                                                                                                                                                                                                                                               | 337.3                                 | 352.7                                | 266.8                                 | 266.8                                | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    |  |  |  |
| 52.5                                                                                                                                                                                                                                                                               | 315.3                                 | 341.7                                | 260.1                                 | 260.1                                | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    |  |  |  |
| 55.8                                                                                                                                                                                                                                                                               | 297.6                                 | 331.8                                | 253.5                                 | 253.5                                | 164.2                                 | 164.2                                | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    |  |  |  |
| 59.1                                                                                                                                                                                                                                                                               | 280.0                                 | 321.9                                | 246.9                                 | 246.9                                | 160.9                                 | 160.9                                | 176.4                                 | 176.4                                | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    |  |  |  |
| 65.6                                                                                                                                                                                                                                                                               | 249.1                                 | 304.2                                | 235.9                                 | 235.9                                | 155.4                                 | 155.4                                | 166.4                                 | 166.4                                | 127.9                                 | 127.9                                | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    |  |  |  |
| 72.2                                                                                                                                                                                                                                                                               | 224.9                                 | 288.8                                | 227.1                                 | 227.1                                | 151.0                                 | 151.0                                | 157.6                                 | 157.6                                | 122.4                                 | 122.4                                | -                                     | -                                    | 106.5                                 | 107.1                                | -                                     | -                                    |  |  |  |
| 78.7                                                                                                                                                                                                                                                                               | 202.8                                 | 273.4                                | 205.0                                 | 218.3                                | 146.6                                 | 146.6                                | 148.8                                 | 148.8                                | 116.8                                 | 116.8                                | 76.3                                  | 76.3                                 | 101.2                                 | 101.9                                | -                                     | -                                    |  |  |  |
| 82.0                                                                                                                                                                                                                                                                               | 194.0                                 | 267.9                                | 195.7                                 | 213.8                                | 144.4                                 | 144.4                                | 145.5                                 | 145.5                                | 114.6                                 | 114.6                                | 75.1                                  | 75.1                                 | 98.9                                  | 99.4                                 | 78.5                                  | 78.9                                 |  |  |  |
| 85.3                                                                                                                                                                                                                                                                               | 185.2                                 | 262.4                                | 186.3                                 | 209.4                                | 142.2                                 | 142.2                                | 142.2                                 | 142.2                                | 112.4                                 | 112.4                                | 73.9                                  | 73.9                                 | 96.6                                  | 97.0                                 | 76.9                                  | 77.4                                 |  |  |  |
| 91.9                                                                                                                                                                                                                                                                               | 168.7                                 | 249.1                                | 170.9                                 | 201.7                                | 138.9                                 | 138.9                                | 135.6                                 | 135.6                                | 107.8                                 | 107.8                                | 71.7                                  | 71.7                                 | 92.2                                  | 92.8                                 | 73.9                                  | 74.3                                 |  |  |  |
| 98.4                                                                                                                                                                                                                                                                               | 154.3                                 | 240.3                                | 156.5                                 | 195.1                                | 134.5                                 | 134.5                                | 129.0                                 | 129.0                                | 103.8                                 | 103.8                                | 69.4                                  | 69.4                                 | 88.4                                  | 88.8                                 | 71.0                                  | 71.4                                 |  |  |  |
| 101.7                                                                                                                                                                                                                                                                              | 148.3                                 | 235.9                                | 150.3                                 | 192.0                                | 132.3                                 | 133.0                                | 126.6                                 | 126.6                                | 102.1                                 | 102.1                                | 68.5                                  | 68.5                                 | 86.7                                  | 87.1                                 | 69.8                                  | 70.2                                 |  |  |  |
| 111.5                                                                                                                                                                                                                                                                              | 130.1                                 | 222.7                                | 131.5                                 | 182.6                                | 125.7                                 | 128.6                                | 119.4                                 | 119.4                                | 96.8                                  | 96.8                                 | 65.8                                  | 65.8                                 | 81.5                                  | 81.9                                 | 66.1                                  | 66.4                                 |  |  |  |
| 124.7                                                                                                                                                                                                                                                                              | 108.9                                 | 206.5                                | 109.9                                 | 171.2                                | 112.0                                 | 122.7                                | 109.2                                 | 110.6                                | 90.4                                  | 90.4                                 | 62.4                                  | 62.4                                 | 75.2                                  | 75.6                                 | 61.7                                  | 61.9                                 |  |  |  |
| 137.8                                                                                                                                                                                                                                                                              | 90.8                                  | 191.8                                | 91.7                                  | 160.9                                | 93.5                                  | 116.8                                | 98.3                                  | 102.5                                | 84.7                                  | 84.7                                 | 59.3                                  | 59.3                                 | 69.4                                  | 69.9                                 | 57.5                                  | 57.8                                 |  |  |  |
| 150.9                                                                                                                                                                                                                                                                              | 76.9                                  | 180.8                                | 77.7                                  | 152.9                                | 79.4                                  | 113.2                                | 84.7                                  | 96.0                                 | 80.0                                  | 80.0                                 | 56.7                                  | 56.7                                 | 64.7                                  | 65.2                                 | 54.0                                  | 54.2                                 |  |  |  |
| 164.0                                                                                                                                                                                                                                                                              | 64.5                                  | 170.5                                | 65.3                                  | 145.5                                | 66.8                                  | 109.6                                | 72.3                                  | 90.2                                 | 72.7                                  | 75.6                                 | 54.2                                  | 54.2                                 | 60.6                                  | 61.0                                 | 50.9                                  | 51.1                                 |  |  |  |
| 177.2                                                                                                                                                                                                                                                                              | 53.8                                  | 160.9                                | 54.5                                  | 138.9                                | 55.8                                  | 106.0                                | 61.3                                  | 84.9                                 | 62.8                                  | 71.7                                 | 52.0                                  | 52.0                                 | 57.1                                  | 57.3                                 | 48.1                                  | 48.3                                 |  |  |  |
| 190.3                                                                                                                                                                                                                                                                              | 45.4                                  | 153.6                                | 45.9                                  | 133.7                                | 47.1                                  | 103.1                                | 52.6                                  | 80.5                                 | 54.0                                  | 68.4                                 | 50.3                                  | 50.3                                 | 54.3                                  | 54.5                                 | 45.9                                  | 45.9                                 |  |  |  |
| 203.4                                                                                                                                                                                                                                                                              | 37.8                                  | 147.0                                | 38.4                                  | 128.6                                | 39.3                                  | 100.5                                | 44.8                                  | 76.4                                 | 46.0                                  | 65.4                                 | 46.5                                  | 48.6                                 | 49.5                                  | 51.8                                 | 43.7                                  | 43.7                                 |  |  |  |
| 216.5                                                                                                                                                                                                                                                                              | 31.1                                  | 141.1                                | 31.7                                  | 123.5                                | 32.4                                  | 98.3                                 | 37.7                                  | 72.5                                 | 38.8                                  | 62.6                                 | 40.8                                  | 47.2                                 | 42.8                                  | 49.2                                 | 41.4                                  | 41.4                                 |  |  |  |
| 226.4                                                                                                                                                                                                                                                                              | 27.1                                  | 136.7                                | 27.6                                  | 121.3                                | 28.0                                  | 97.0                                 | 33.4                                  | 70.2                                 | 34.4                                  | 60.8                                 | 36.2                                  | 46.2                                 | 38.3                                  | 47.4                                 | 38.4                                  | 40.1                                 |  |  |  |
| 229.7                                                                                                                                                                                                                                                                              | 25.8                                  | 135.2                                | 26.2                                  | 120.5                                | -                                     | -                                    | 32.0                                  | 69.4                                 | 32.9                                  | 60.3                                 | 34.6                                  | 45.9                                 | 36.7                                  | 46.8                                 | 37.3                                  | 39.7                                 |  |  |  |
| 242.8                                                                                                                                                                                                                                                                              | 20.9                                  | 130.4                                | 21.2                                  | 117.6                                | -                                     | -                                    | 26.7                                  | 66.6                                 | 27.6                                  | 58.1                                 | 29.0                                  | 44.8                                 | 31.3                                  | 44.6                                 | 32.7                                  | 38.0                                 |  |  |  |
| 255.9                                                                                                                                                                                                                                                                              | 16.3                                  | 126.8                                | 16.8                                  | 114.6                                | -                                     | -                                    | 22.0                                  | 63.9                                 | 22.7                                  | 56.2                                 | 24.0                                  | 43.9                                 | 26.5                                  | 42.5                                 | 27.6                                  | 36.4                                 |  |  |  |
| 265.7                                                                                                                                                                                                                                                                              | 13.4                                  | 124.6                                | -                                     | -                                    | -                                     | -                                    | 19.0                                  | 62.3                                 | 19.6                                  | 55.1                                 | 20.5                                  | 43.2                                 | 23.3                                  | 41.2                                 | 24.4                                  | 35.4                                 |  |  |  |
| 269.0                                                                                                                                                                                                                                                                              | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | 17.9                                  | 61.7                                 | 18.6                                  | 54.7                                 | -                                     | -                                    | 22.2                                  | 40.8                                 | 23.3                                  | 35.1                                 |  |  |  |
| 282.2                                                                                                                                                                                                                                                                              | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | 14.2                                  | 59.8                                 | 14.8                                  | 53.4                                 | -                                     | -                                    | 18.2                                  | 39.1                                 | 19.3                                  | 33.9                                 |  |  |  |
| 295.3                                                                                                                                                                                                                                                                              | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | 10.8                                  | 58.2                                 | 10.6                                  | 52.2                                 | -                                     | -                                    | 14.6                                  | 37.5                                 | 15.4                                  | 32.8                                 |  |  |  |
| 305.1                                                                                                                                                                                                                                                                              | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | 8.6                                   | 57.1                                 | -                                     | -                                    | -                                     | -                                    | 12.2                                  | 36.6                                 | 13.0                                  | 32.1                                 |  |  |  |
| 308.4                                                                                                                                                                                                                                                                              | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | 11.5                                  | 36.3                                 | 12.2                                  | 31.8                                 |  |  |  |
| 321.5                                                                                                                                                                                                                                                                              | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | 8.5                                   | 35.2                                 | 9.1                                   | 31.1                                 |  |  |  |
| 324.8                                                                                                                                                                                                                                                                              | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | 7.7                                   | 35.0                                 | 8.4                                   | 31.0                                 |  |  |  |
| 331.4                                                                                                                                                                                                                                                                              | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | 34.4                                 | -                                     | 30.6                                 |  |  |  |
| 334.6                                                                                                                                                                                                                                                                              | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | 34.2                                 | -                                     | -                                    |  |  |  |
| 341.2                                                                                                                                                                                                                                                                              | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | -                                    | -                                     | 33.7                                 | -                                     | -                                    |  |  |  |
| <div><div></div><div></div></div>                                                                                                                                                                                                                                                  | <div>0 lb</div>                       | <div>143,300 lb</div>                | <div>275,600 lb</div>                 | <div>363,800 lb</div>                | <div>452,000 lb</div>                 | <div>584,300 lb</div>                | <div>716,600 lb</div>                 |                                      |                                       |                                      |                                       |                                      |                                       |                                      |                                       |                                      |  |  |  |

|  363,800 lb +  110,200 lb |       |  36.1-62.3 ft   |       |  27.6 ft        |       |  32.2 ft/s    |       | 360°                                                                                             |       | ASME B30.5                                                                                         |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------|------|
| 275.6 ft                                                                                                                                                                                    |       |                                                                                                  |       |                                                                                                  |       |                                                                                                  |       |                                                                                                  |       |                                                                                                    |      |
| SSL+LF_1                                                                                                                                                                                    |       |                                                                                                  |       |                                                                                                  |       |                                                                                                  |       |                                                                                                  |       |                                                                                                    |      |
| 39.4 ft                                                                                                                                                                                     |       |                                                                                                  |       |                                                                                                  |       | 78.7 ft                                                                                          |       |                                                                                                  |       | 118.1 ft                                                                                           |      |
|  0 lb                                                                                                      |       |  0 lb-716.6 klb |       |  0 lb-716.6 klb |       |  0 lb-716.6 klb |       |  0 lb-716.6 klb |       |  0 lb-716.6 klb |      |
|  15°                                                                                                       |       |  20°            |       |  30°            |       |  15°            |       |  20°            |       |  30°            |      |
| ft1,000 lb                                                                                                                                                                                  |       |                                                                                                  |       |                                                                                                  |       |                                                                                                  |       |                                                                                                  |       |                                                                                                    |      |
| 45.9                                                                                                                                                                                        | 346.1 | 368.2                                                                                            | -     | -                                                                                                | -     | -                                                                                                | -     | -                                                                                                | -     | -                                                                                                  | -    |
| 49.2                                                                                                                                                                                        | 324.1 | 358.3                                                                                            | 269.0 | 269.0                                                                                            | -     | -                                                                                                | -     | -                                                                                                | -     | -                                                                                                  | -    |
| 52.5                                                                                                                                                                                        | 302.0 | 348.3                                                                                            | 262.4 | 262.4                                                                                            | -     | -                                                                                                | -     | -                                                                                                | -     | -                                                                                                  | -    |
| 55.8                                                                                                                                                                                        | 285.5 | 338.4                                                                                            | 256.8 | 256.8                                                                                            | 164.2 | 164.2                                                                                            | -     | -                                                                                                | -     | -                                                                                                  | -    |
| 59.1                                                                                                                                                                                        | 269.0 | 328.5                                                                                            | 251.3 | 251.3                                                                                            | 162.0 | 162.0                                                                                            | 177.5 | 178.6                                                                                            | -     | -                                                                                                  | -    |
| 65.6                                                                                                                                                                                        | 240.3 | 310.9                                                                                            | 240.3 | 240.3                                                                                            | 157.6 | 157.6                                                                                            | 168.7 | 168.7                                                                                            | 129.0 | 129.0                                                                                              | -    |
| 72.2                                                                                                                                                                                        | 216.1 | 295.4                                                                                            | 218.3 | 231.5                                                                                            | 152.1 | 152.1                                                                                            | 159.8 | 159.8                                                                                            | 123.5 | 123.5                                                                                              | -    |
| 78.7                                                                                                                                                                                        | 195.1 | 282.2                                                                                            | 197.3 | 222.7                                                                                            | 147.7 | 147.7                                                                                            | 152.1 | 152.1                                                                                            | 117.9 | 117.9                                                                                              | 76.7 |
| 85.3                                                                                                                                                                                        | 177.5 | 269.0                                                                                            | 179.7 | 213.8                                                                                            | 144.4 | 144.4                                                                                            | 145.5 | 145.5                                                                                            | 113.5 | 113.5                                                                                              | 74.3 |
| 91.9                                                                                                                                                                                        | 160.9 | 257.9                                                                                            | 163.1 | 206.1                                                                                            | 140.0 | 140.0                                                                                            | 138.9 | 138.9                                                                                            | 109.8 | 109.8                                                                                              | 72.3 |
| 98.4                                                                                                                                                                                        | 147.7 | 246.9                                                                                            | 149.9 | 199.5                                                                                            | 136.7 | 136.7                                                                                            | 132.3 | 132.3                                                                                            | 105.8 | 105.8                                                                                              | 70.1 |
| 101.7                                                                                                                                                                                       | 142.2 | 242.5                                                                                            | 144.2 | 196.4                                                                                            | 133.7 | 135.2                                                                                            | 129.9 | 129.9                                                                                            | 104.1 | 104.1                                                                                              | 69.2 |
| 111.5                                                                                                                                                                                       | 125.7 | 229.3                                                                                            | 127.1 | 187.0                                                                                            | 124.9 | 130.8                                                                                            | 122.7 | 122.7                                                                                            | 98.8  | 98.8                                                                                               | 66.6 |
| 124.7                                                                                                                                                                                       | 105.5 | 213.5                                                                                            | 106.7 | 176.0                                                                                            | 109.6 | 124.9                                                                                            | 110.2 | 113.9                                                                                            | 92.4  | 92.4                                                                                               | 63.3 |
| 137.8                                                                                                                                                                                       | 87.3  | 199.5                                                                                            | 88.6  | 166.4                                                                                            | 90.6  | 119.0                                                                                            | 94.6  | 105.8                                                                                            | 86.6  | 86.6                                                                                               | 60.2 |
| 150.9                                                                                                                                                                                       | 73.0  | 187.8                                                                                            | 74.1  | 158.4                                                                                            | 76.1  | 115.4                                                                                            | 81.2  | 99.2                                                                                             | 80.0  | 81.9                                                                                               | 57.5 |
| 164.0                                                                                                                                                                                       | 60.5  | 177.1                                                                                            | 61.4  | 150.6                                                                                            | 63.2  | 111.7                                                                                            | 68.9  | 93.2                                                                                             | 71.0  | 77.7                                                                                               | 55.2 |
| 177.2                                                                                                                                                                                       | 49.6  | 167.6                                                                                            | 50.5  | 143.3                                                                                            | 52.0  | 108.0                                                                                            | 57.8  | 87.7                                                                                             | 59.5  | 73.9                                                                                               | 53.1 |
| 190.3                                                                                                                                                                                       | 41.2  | 159.5                                                                                            | 42.0  | 137.4                                                                                            | 43.4  | 104.9                                                                                            | 49.1  | 83.2                                                                                             | 50.6  | 70.5                                                                                               | 50.2 |
| 203.4                                                                                                                                                                                       | 33.7  | 152.1                                                                                            | 34.3  | 132.3                                                                                            | 35.5  | 102.2                                                                                            | 41.2  | 79.0                                                                                             | 42.5  | 67.4                                                                                               | 45.0 |
| 216.5                                                                                                                                                                                       | 26.9  | 145.5                                                                                            | 27.6  | 127.9                                                                                            | 28.4  | 99.9                                                                                             | 34.2  | 75.2                                                                                             | 35.3  | 64.6                                                                                               | 37.5 |
| 229.7                                                                                                                                                                                       | 21.5  | 140.4                                                                                            | 22.0  | 124.2                                                                                            | 22.9  | 98.1                                                                                             | 28.3  | 71.9                                                                                             | 29.4  | 62.1                                                                                               | 31.3 |
| 242.8                                                                                                                                                                                       | 16.5  | 135.6                                                                                            | 16.9  | 120.5                                                                                            | 15.7  | 96.3                                                                                             | 23.0  | 69.0                                                                                             | 24.0  | 59.9                                                                                               | 25.6 |
| 255.9                                                                                                                                                                                       | 12.1  | 131.2                                                                                            | 12.3  | 116.8                                                                                            | -     | -                                                                                                | 18.3  | 66.4                                                                                             | 19.2  | 58.0                                                                                               | 20.5 |
| 269.0                                                                                                                                                                                       | 8.2   | 127.3                                                                                            | 8.6   | 115.2                                                                                            | -     | -                                                                                                | 14.2  | 64.0                                                                                             | 14.9  | 56.2                                                                                               | 16.1 |
| 272.3                                                                                                                                                                                       | -     | 126.5                                                                                            | -     | 114.6                                                                                            | -     | -                                                                                                | 13.2  | 63.4                                                                                             | 13.9  | 55.8                                                                                               | 15.0 |
| 278.9                                                                                                                                                                                       | -     | 125.1                                                                                            | -     | -                                                                                                | -     | -                                                                                                | 11.2  | 62.4                                                                                             | 11.9  | 55.0                                                                                               | 13.0 |
| 282.2                                                                                                                                                                                       | -     | 124.6                                                                                            | -     | -                                                                                                | -     | -                                                                                                | 10.4  | 61.9                                                                                             | 11.0  | 54.7                                                                                               | -    |
| 292.0                                                                                                                                                                                       | -     | -                                                                                                | -     | -                                                                                                | -     | -                                                                                                | 7.7   | 60.5                                                                                             | 8.4   | 53.7                                                                                               | -    |
| 295.3                                                                                                                                                                                       | -     | -                                                                                                | -     | -                                                                                                | -     | -                                                                                                | -     | 60.0                                                                                             | -     | 53.4                                                                                               | -    |
| 308.4                                                                                                                                                                                       | -     | -                                                                                                | -     | -                                                                                                | -     | -                                                                                                | -     | 58.3                                                                                             | -     | 52.3                                                                                               | -    |
| 311.7                                                                                                                                                                                       | -     | -                                                                                                | -     | -                                                                                                | -     | -                                                                                                | -     | 57.9                                                                                             | -     | 52.0                                                                                               | -    |
| 318.2                                                                                                                                                                                       | -     | -                                                                                                | -     | -                                                                                                | -     | -                                                                                                | -     | 57.3                                                                                             | -     | -                                                                                                  | -    |
| 321.5                                                                                                                                                                                       | -     | -                                                                                                | -     | -                                                                                                | -     | -                                                                                                | -     | 57.1                                                                                             | -     | -                                                                                                  | -    |
| 334.6                                                                                                                                                                                       | -     | -                                                                                                | -     | -                                                                                                | -     | -                                                                                                | -     | -                                                                                                | -     | -                                                                                                  | -    |
| 347.8                                                                                                                                                                                       | -     | -                                                                                                | -     | -                                                                                                | -     | -                                                                                                | -     | -                                                                                                | -     | -                                                                                                  | -    |
| 357.6                                                                                                                                                                                       | -     | -                                                                                                | -     | -                                                                                                | -     | -                                                                                                | -     | -                                                                                                | -     | -                                                                                                  | -    |

|                                                                                     |      |            |            |            |            |            |            |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|
|  | 0 lb | 143,300 lb | 275,600 lb | 363,800 lb | 452,000 lb | 584,300 lb | 716,600 lb |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|

|  363,800 lb +  110,200 lb |       |  36.1-62.3 ft |       |  27.6 ft |       |  32.2 ft/s |       | 360°                  |       | ASME B30.5            |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------|-------|-----------------------|-------|-----------------------|------|
| 295.3 ft                                                                                                                                                                                    |       |                                                                                                |       |                                                                                           |       |                                                                                               |       |                       |       |                       |      |
| SSL+LF_1                                                                                                                                                                                    |       |                                                                                                |       |                                                                                           |       |                                                                                               |       |                       |       |                       |      |
| 39.4 ft                                                                                                                                                                                     |       |                                                                                                |       | 78.7 ft                                                                                   |       |                                                                                               |       | 118.1 ft              |       |                       |      |
| 0 lb-<br>716.6<br>klb                                                                                                                                                                       |       | 0 lb-<br>716.6<br>klb                                                                          |       | 0 lb-<br>716.6<br>klb                                                                     |       | 0 lb-<br>716.6<br>klb                                                                         |       | 0 lb-<br>716.6<br>klb |       | 0 lb-<br>716.6<br>klb |      |
| 15°                                                                                                                                                                                         |       | 20°                                                                                            |       | 30°                                                                                       |       | 15°                                                                                           |       | 20°                   |       | 30°                   |      |
| 1,000 lb                                                                                                                                                                                    |       |                                                                                                |       |                                                                                           |       |                                                                                               |       |                       |       |                       |      |
| 49.2                                                                                                                                                                                        | 310.9 | 363.8                                                                                          | -     | -                                                                                         | -     | -                                                                                             | -     | -                     | -     | -                     | -    |
| 52.5                                                                                                                                                                                        | 291.0 | 352.7                                                                                          | 266.8 | 266.8                                                                                     | -     | -                                                                                             | -     | -                     | -     | -                     | -    |
| 59.1                                                                                                                                                                                        | 257.9 | 335.1                                                                                          | 255.7 | 255.7                                                                                     | 163.1 | 163.1                                                                                         | -     | -                     | -     | -                     | -    |
| 62.3                                                                                                                                                                                        | 243.6 | 326.3                                                                                          | 244.7 | 250.2                                                                                     | 160.9 | 160.9                                                                                         | 175.3 | 176.4                 | -     | -                     | -    |
| 65.6                                                                                                                                                                                        | 229.3 | 317.5                                                                                          | 233.7 | 244.7                                                                                     | 158.7 | 158.7                                                                                         | 170.9 | 170.9                 | -     | -                     | -    |
| 68.9                                                                                                                                                                                        | 218.3 | 309.7                                                                                          | 221.6 | 240.3                                                                                     | 156.5 | 156.5                                                                                         | 167.0 | 167.0                 | 127.9 | 127.9                 | -    |
| 72.2                                                                                                                                                                                        | 207.2 | 302.0                                                                                          | 209.4 | 235.9                                                                                     | 154.3 | 154.3                                                                                         | 163.1 | 163.1                 | 124.6 | 124.6                 | -    |
| 75.5                                                                                                                                                                                        | 197.3 | 295.4                                                                                          | 199.5 | 231.5                                                                                     | 152.1 | 152.1                                                                                         | 159.3 | 159.3                 | 122.4 | 122.4                 | -    |
| 78.7                                                                                                                                                                                        | 187.4 | 288.8                                                                                          | 189.6 | 227.1                                                                                     | 149.9 | 149.9                                                                                         | 155.4 | 155.4                 | 120.2 | 120.2                 | -    |
| 82.0                                                                                                                                                                                        | 178.6 | 282.2                                                                                          | 180.8 | 222.7                                                                                     | 147.7 | 147.7                                                                                         | 151.6 | 151.6                 | 117.9 | 117.9                 | 75.8 |
| 85.3                                                                                                                                                                                        | 169.8 | 275.6                                                                                          | 172.0 | 218.3                                                                                     | 145.5 | 145.5                                                                                         | 147.7 | 147.7                 | 115.7 | 115.7                 | 74.7 |
| 91.9                                                                                                                                                                                        | 154.3 | 264.6                                                                                          | 156.5 | 210.5                                                                                     | 142.2 | 142.2                                                                                         | 142.2 | 142.2                 | 111.3 | 111.3                 | 72.8 |
| 98.4                                                                                                                                                                                        | 141.1 | 253.5                                                                                          | 143.3 | 203.9                                                                                     | 138.9 | 138.9                                                                                         | 135.6 | 135.6                 | 107.6 | 107.6                 | 70.8 |
| 105.0                                                                                                                                                                                       | 130.5 | 244.7                                                                                          | 132.3 | 197.7                                                                                     | 130.4 | 130.4                                                                                         | 127.9 | 127.9                 | 104.1 | 104.1                 | 69.0 |
| 111.5                                                                                                                                                                                       | 119.9 | 235.9                                                                                          | 121.3 | 191.4                                                                                     | 122.0 | 122.0                                                                                         | 125.3 | 125.3                 | 100.7 | 100.7                 | 67.2 |
| 124.7                                                                                                                                                                                       | 100.9 | 220.1                                                                                          | 101.9 | 180.4                                                                                     | 104.9 | 104.9                                                                                         | 116.4 | 116.4                 | 94.4  | 94.4                  | 63.9 |
| 137.8                                                                                                                                                                                       | 84.0  | 206.1                                                                                          | 85.3  | 170.9                                                                                     | 87.7  | 87.7                                                                                          | 108.9 | 108.9                 | 88.6  | 88.6                  | 60.8 |
| 150.9                                                                                                                                                                                       | 69.6  | 194.4                                                                                          | 70.8  | 162.8                                                                                     | 72.9  | 72.9                                                                                          | 102.3 | 102.3                 | 83.9  | 83.9                  | 58.3 |
| 164.0                                                                                                                                                                                       | 57.0  | 183.7                                                                                          | 58.1  | 155.1                                                                                     | 59.9  | 59.9                                                                                          | 96.2  | 96.2                  | 79.6  | 79.6                  | 56.0 |
| 177.2                                                                                                                                                                                       | 46.1  | 174.2                                                                                          | 47.2  | 147.7                                                                                     | 48.7  | 48.7                                                                                          | 90.6  | 90.6                  | 75.6  | 75.6                  | 53.8 |
| 190.3                                                                                                                                                                                       | 37.7  | 166.1                                                                                          | 38.5  | 141.8                                                                                     | 39.9  | 39.9                                                                                          | 86.1  | 86.1                  | 72.2  | 72.2                  | 52.0 |
| 203.4                                                                                                                                                                                       | 30.1  | 158.4                                                                                          | 30.8  | 136.3                                                                                     | 32.0  | 32.0                                                                                          | 81.8  | 81.8                  | 69.2  | 69.2                  | 50.3 |
| 216.5                                                                                                                                                                                       | 23.4  | 151.0                                                                                          | 24.0  | 131.2                                                                                     | 25.1  | 25.1                                                                                          | 77.8  | 77.8                  | 66.4  | 66.4                  | 48.7 |
| 229.7                                                                                                                                                                                       | 17.9  | 145.1                                                                                          | 18.4  | 127.5                                                                                     | 19.4  | 19.4                                                                                          | 74.4  | 74.4                  | 63.9  | 63.9                  | 47.4 |
| 242.8                                                                                                                                                                                       | 12.9  | 140.0                                                                                          | 13.4  | 123.9                                                                                     | 14.2  | 14.2                                                                                          | 71.4  | 71.4                  | 61.6  | 61.6                  | 46.2 |
| 255.9                                                                                                                                                                                       | 8.4   | 135.6                                                                                          | 8.8   | 120.2                                                                                     | 9.5   | 9.5                                                                                           | 68.6  | 68.6                  | 59.5  | 59.5                  | 45.2 |
| 269.0                                                                                                                                                                                       | -     | 131.2                                                                                          | -     | 117.2                                                                                     | -     | -                                                                                             | 66.1  | 66.1                  | 57.8  | 57.8                  | 44.3 |
| 278.9                                                                                                                                                                                       | -     | 128.2                                                                                          | -     | 115.2                                                                                     | -     | -                                                                                             | 64.4  | 64.4                  | 56.5  | 56.5                  | 43.7 |
| 282.2                                                                                                                                                                                       | -     | 127.5                                                                                          | -     | 114.6                                                                                     | -     | -                                                                                             | 63.8  | 63.8                  | 56.1  | 56.1                  | 43.5 |
| 285.4                                                                                                                                                                                       | -     | 126.8                                                                                          | -     | 114.1                                                                                     | -     | -                                                                                             | 63.3  | 63.3                  | 55.8  | 55.8                  | 43.3 |
| 288.7                                                                                                                                                                                       | -     | 126.0                                                                                          | -     | 113.5                                                                                     | -     | -                                                                                             | 62.8  | 62.8                  | 55.4  | 55.4                  | 43.2 |
| 295.3                                                                                                                                                                                       | -     | 124.6                                                                                          | -     | -                                                                                         | -     | -                                                                                             | 61.7  | 61.7                  | 54.7  | 54.7                  | 42.8 |
| 298.6                                                                                                                                                                                       | -     | 123.5                                                                                          | -     | -                                                                                         | -     | -                                                                                             | 61.3  | 61.3                  | 54.4  | 54.4                  | -    |
| 305.1                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | 60.5  | 60.5                  | 53.8  | 53.8                  | -    |
| 308.4                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | 60.1  | 60.1                  | 53.5  | 53.5                  | -    |
| 321.5                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | 58.6  | 58.6                  | 52.5  | 52.5                  | -    |
| 328.1                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | 57.8  | 57.8                  | 52.0  | 52.0                  | -    |
| 331.4                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | 57.5  | 57.5                  | -     | -                     | -    |
| 334.6                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | 57.1  | 57.1                  | -     | -                     | -    |
| 337.9                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | 56.9  | 56.9                  | -     | -                     | -    |
| 347.8                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | -                     | -     | -                     | -    |
| 360.9                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | -                     | -     | -                     | -    |
| 364.2                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | -                     | -     | -                     | -    |
| 374.0                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | -                     | -     | -                     | -    |
| 377.3                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | -                     | -     | -                     | -    |

 0 lb143,300 lb275,600 lb363,800 lb452,000 lb584,300 lb716,600 lb

|                                                                                     |      |            |            |            |            |            |            |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|
|  | 0 lb | 143,300 lb | 275,600 lb | 363,800 lb | 452,000 lb | 584,300 lb | 716,600 lb |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|



| <div> <div>363,800 lb + 110,200 lb</div> <div>36.1-62.3 ft</div> <div>27.6 ft</div> <div>32.2 ft/s</div> <div>360°</div> <div>ASME B30.5</div> </div> |                |       |                |       |                |       |                |       |                |          |                |      |                |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|----------|----------------|------|----------------|-------|
| 315.0 ft                                                                                                                                              |                |       |                |       |                |       |                |       |                |          |                |      |                |       |
| SSL+LF_1                                                                                                                                              |                |       |                |       |                |       |                |       |                |          |                |      |                |       |
| 39.4 ft                                                                                                                                               |                |       |                |       | 78.7 ft        |       |                |       |                | 118.1 ft |                |      |                |       |
| 0 lb                                                                                                                                                  | 0 lb-716.6 klb | 0 lb  | 0 lb-716.6 klb | 0 lb  | 0 lb-716.6 klb | 0 lb  | 0 lb-716.6 klb | 0 lb  | 0 lb-716.6 klb | 0 lb     | 0 lb-716.6 klb | 0 lb | 0 lb-716.6 klb | 0 lb  |
| 15°                                                                                                                                                   | 20°            | 30°   | 15°            | 20°   | 30°            | 15°   | 20°            | 30°   | 15°            | 20°      | 30°            | 15°  | 20°            | 30°   |
| 1,000 lb                                                                                                                                              |                |       |                |       |                |       |                |       |                |          |                |      |                |       |
| 49.2                                                                                                                                                  | 297.6          | 368.2 | -              | -     | -              | -     | -              | -     | -              | -        | -              | -    | -              | -     |
| 52.5                                                                                                                                                  | 280.0          | 359.4 | 269.0          | 269.0 | -              | -     | -              | -     | -              | -        | -              | -    | -              | -     |
| 59.1                                                                                                                                                  | 246.9          | 341.7 | 251.3          | 257.9 | 164.2          | 164.2 | -              | -     | -              | -        | -              | -    | -              | -     |
| 62.3                                                                                                                                                  | 233.7          | 332.9 | 238.1          | 252.4 | 162.0          | 162.0 | 176.4          | 177.5 | -              | -        | -              | -    | -              | -     |
| 65.6                                                                                                                                                  | 220.5          | 324.1 | 224.9          | 246.9 | 159.8          | 159.8 | 172.0          | 173.1 | -              | -        | -              | -    | -              | -     |
| 68.9                                                                                                                                                  | 209.4          | 316.4 | 213.3          | 242.5 | 157.6          | 157.6 | 168.1          | 169.2 | 129.0          | 129.0    | -              | -    | -              | -     |
| 72.2                                                                                                                                                  | 198.4          | 308.6 | 201.7          | 238.1 | 155.4          | 155.4 | 164.2          | 165.3 | 125.7          | 125.7    | -              | -    | -              | -     |
| 75.5                                                                                                                                                  | 189.0          | 302.0 | 191.8          | 233.7 | 153.2          | 153.2 | 160.9          | 161.5 | 123.5          | 123.5    | -              | -    | 105.8          | 106.5 |
| 78.7                                                                                                                                                  | 179.7          | 295.4 | 181.9          | 229.3 | 151.0          | 151.0 | 157.6          | 157.6 | 121.3          | 121.3    | -              | -    | 103.4          | 104.3 |
| 82.0                                                                                                                                                  | 170.9          | 288.8 | 173.1          | 226.0 | 149.4          | 149.4 | 154.3          | 154.3 | 119.0          | 119.0    | 76.3           | 76.3 | 101.3          | 102.1 |
| 85.3                                                                                                                                                  | 162.0          | 282.2 | 164.2          | 222.7 | 147.7          | 147.7 | 151.0          | 151.0 | 116.8          | 116.8    | 75.2           | 75.2 | 99.2           | 99.9  |
| 88.6                                                                                                                                                  | 154.9          | 276.7 | 157.1          | 218.8 | 145.5          | 145.5 | 147.7          | 147.7 | 114.6          | 114.6    | 74.2           | 74.2 | 97.2           | 97.9  |
| 91.9                                                                                                                                                  | 147.7          | 271.2 | 149.9          | 215.0 | 143.3          | 143.3 | 144.4          | 144.4 | 112.4          | 112.4    | 73.2           | 73.2 | 95.2           | 95.9  |
| 98.4                                                                                                                                                  | 134.5          | 260.1 | 136.7          | 208.3 | 140.0          | 140.0 | 137.8          | 138.9 | 109.1          | 109.1    | 71.2           | 71.2 | 91.5           | 92.2  |
| 105.0                                                                                                                                                 | 124.0          | 251.3 | 126.0          | 202.1 | 129.3          | 137.1 | 127.7          | 133.7 | 105.7          | 105.7    | 69.5           | 69.5 | 88.4           | 89.0  |
| 111.5                                                                                                                                                 | 113.6          | 242.5 | 115.4          | 195.8 | 118.5          | 134.1 | 117.7          | 128.6 | 102.4          | 102.4    | 67.8           | 67.8 | 85.3           | 85.8  |
| 124.7                                                                                                                                                 | 95.4           | 226.7 | 96.9           | 184.8 | 99.7           | 128.6 | 99.9           | 119.4 | 95.0           | 96.2     | 64.7           | 64.7 | 79.5           | 80.0  |
| 137.8                                                                                                                                                 | 79.8           | 212.7 | 81.1           | 175.3 | 83.6           | 123.5 | 84.4           | 111.3 | 87.1           | 90.6     | 61.7           | 61.7 | 74.1           | 74.5  |
| 150.9                                                                                                                                                 | 65.6           | 201.0 | 66.9           | 166.4 | 69.2           | 119.0 | 72.4           | 104.9 | 74.9           | 85.9     | 59.2           | 59.2 | 69.5           | 70.0  |
| 164.0                                                                                                                                                 | 53.0           | 190.0 | 54.2           | 158.7 | 56.3           | 115.0 | 61.3           | 98.9  | 63.6           | 81.6     | 56.9           | 56.9 | 63.3           | 65.7  |
| 177.2                                                                                                                                                 | 42.1           | 179.7 | 43.2           | 152.1 | 45.0           | 111.3 | 51.1           | 93.5  | 53.1           | 77.6     | 54.7           | 54.7 | 55.6           | 61.7  |
| 190.3                                                                                                                                                 | 33.6           | 171.6 | 34.5           | 146.2 | 36.2           | 108.5 | 42.3           | 88.8  | 44.2           | 74.1     | 46.7           | 52.8 | 47.8           | 58.6  |
| 203.4                                                                                                                                                 | 25.9           | 163.9 | 26.7           | 140.7 | 28.2           | 105.8 | 34.3           | 84.4  | 36.0           | 70.9     | 38.9           | 51.1 | 40.3           | 55.9  |
| 216.5                                                                                                                                                 | 19.2           | 156.5 | 19.8           | 135.6 | 21.2           | 103.2 | 27.1           | 80.2  | 28.7           | 68.1     | 31.3           | 49.6 | 33.3           | 53.6  |
| 229.7                                                                                                                                                 | 13.6           | 150.6 | 14.3           | 131.2 | 15.4           | 101.0 | 21.4           | 76.9  | 22.6           | 65.5     | 25.1           | 48.1 | 27.1           | 51.2  |
| 242.8                                                                                                                                                 | 8.4            | 145.3 | 9.0            | 127.1 | 10.1           | 99.0  | 16.0           | 73.7  | 17.1           | 63.1     | 19.4           | 46.8 | 21.5           | 49.0  |
| 246.1                                                                                                                                                 | -              | 144.0 | 7.7            | 126.2 | 8.8            | 98.5  | 14.8           | 73.0  | 15.9           | 62.6     | 18.1           | 46.5 | 20.3           | 48.5  |
| 255.9                                                                                                                                                 | -              | 140.0 | -              | 123.5 | -              | 97.2  | 11.0           | 70.8  | 12.1           | 61.1     | 14.1           | 45.6 | 16.5           | 47.0  |
| 265.7                                                                                                                                                 | -              | 136.7 | -              | 121.3 | -              | 96.3  | 7.9            | 68.9  | 9.0            | 59.6     | 10.8           | 45.0 | 13.3           | 45.5  |
| 269.0                                                                                                                                                 | -              | 135.6 | -              | 120.5 | -              | 96.0  | -              | 68.3  | 7.9            | 59.1     | 9.7            | 44.8 | 12.3           | 45.0  |
| 272.3                                                                                                                                                 | -              | 134.5 | -              | 119.8 | -              | 95.7  | -              | 67.6  | -              | 58.6     | 8.6            | 44.5 | 11.2           | 44.6  |
| 282.2                                                                                                                                                 | -              | 131.5 | -              | 117.6 | -              | -     | -              | 65.9  | -              | 57.4     | -              | 43.9 | 8.2            | 43.3  |
| 285.4                                                                                                                                                 | -              | 130.6 | -              | 116.8 | -              | -     | -              | 65.4  | -              | 57.0     | -              | 43.8 | -              | 42.9  |
| 295.3                                                                                                                                                 | -              | 127.9 | -              | 114.6 | -              | -     | -              | 63.7  | -              | 55.8     | -              | 43.2 | -              | 41.7  |
| 308.4                                                                                                                                                 | -              | 124.9 | -              | 96.6  | -              | -     | -              | 61.8  | -              | 54.5     | -              | 42.5 | -              | 40.2  |
| 318.2                                                                                                                                                 | -              | 123.5 | -              | -     | -              | -     | -              | 60.5  | -              | 53.6     | -              | -    | -              | 39.1  |
| 321.5                                                                                                                                                 | -              | -     | -              | -     | -              | -     | -              | 60.1  | -              | 53.4     | -              | -    | -              | 38.8  |
| 334.6                                                                                                                                                 | -              | -     | -              | -     | -              | -     | -              | 58.6  | -              | 52.2     | -              | -    | -              | 37.5  |
| 344.5                                                                                                                                                 | -              | -     | -              | -     | -              | -     | -              | 57.8  | -              | 51.8     | -              | -    | -              | 36.6  |
| 347.8                                                                                                                                                 | -              | -     | -              | -     | -              | -     | -              | 57.5  | -              | -        | -              | -    | -              | 36.3  |
| 354.3                                                                                                                                                 | -              | -     | -              | -     | -              | -     | -              | 56.9  | -              | -        | -              | -    | -              | 35.7  |
| 360.9                                                                                                                                                 | -              | -     | -              | -     | -              | -     | -              | -     | -              | -        | -              | -    | -              | 35.3  |
| 374.0                                                                                                                                                 | -              | -     | -              | -     | -              | -     | -              | -     | -              | -        | -              | -    | -              | 34.4  |
| 380.6                                                                                                                                                 | -              | -     | -              | -     | -              | -     | -              | -     | -              | -        | -              | -    | -              | 34.2  |
| 387.1                                                                                                                                                 | -              | -     | -              | -     | -              | -     | -              | -     | -              | -        | -              | -    | -              | 33.8  |
| 393.7                                                                                                                                                 | -              | -     | -              | -     | -              | -     | -              | -     | -              | -        | -              | -    | -              | 33.5  |

 0 lb
  143,300 lb
  275,600 lb
  363,800 lb
  452,000 lb
  584,300 lb
  716,600 lb



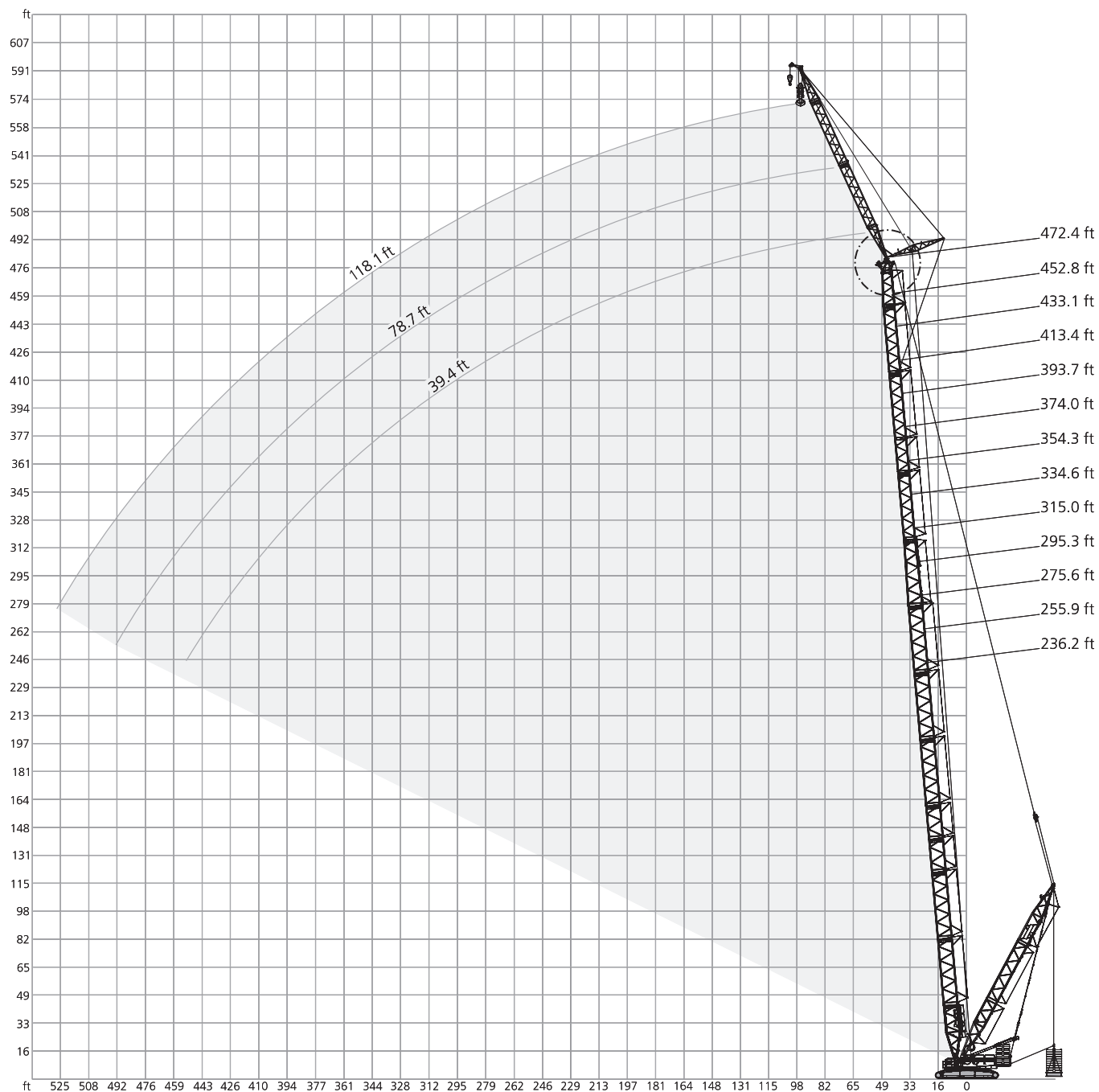
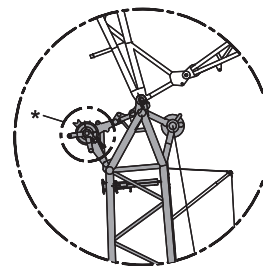
| <div> <div>363,800 lb + 110,200 lb</div> <div>36.1-62.3 ft</div> <div>27.6 ft</div> <div>32.2 ft/s</div> <div>360°</div> <div>ASME B30.5</div> </div> |       |       |       |         |       |       |       |          |       |       |       |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|---------|-------|-------|-------|----------|-------|-------|-------|-------|-------|
| 334.6 ft                                                                                                                                              |       |       |       |         |       |       |       |          |       |       |       |       |       |
| SSL+LF_1                                                                                                                                              |       |       |       |         |       |       |       |          |       |       |       |       |       |
| 39.4 ft                                                                                                                                               |       |       |       | 78.7 ft |       |       |       | 118.1 ft |       |       |       |       |       |
| 0 lb                                                                                                                                                  | 0 lb  | 0 lb  | 0 lb  | 0 lb    | 0 lb  | 0 lb  | 0 lb  | 0 lb     | 0 lb  | 0 lb  | 0 lb  | 0 lb  | 0 lb  |
| 716.6                                                                                                                                                 | 716.6 | 716.6 | 716.6 | 716.6   | 716.6 | 716.6 | 716.6 | 716.6    | 716.6 | 716.6 | 716.6 | 716.6 | 716.6 |
| klb                                                                                                                                                   | klb   | klb   | klb   | klb     | klb   | klb   | klb   | klb      | klb   | klb   | klb   | klb   | klb   |
| 15°                                                                                                                                                   | 20°   | 30°   | 15°   | 20°     | 30°   | 15°   | 20°   | 30°      | 15°   | 20°   | 30°   | 15°   | 20°   |
| 30°                                                                                                                                                   | 15°   | 20°   | 30°   | 15°     | 20°   | 30°   | 15°   | 20°      | 30°   | 15°   | 20°   | 30°   | 15°   |
| 1,000 lb                                                                                                                                              |       |       |       |         |       |       |       |          |       |       |       |       |       |
| 52.5                                                                                                                                                  | 269.0 | 354.9 | -     | -       | -     | -     | -     | -        | -     | -     | -     | -     | -     |
| 55.8                                                                                                                                                  | 253.5 | 350.5 | 255.7 | 266.8   | -     | -     | -     | -        | -     | -     | -     | -     | -     |
| 59.1                                                                                                                                                  | 238.1 | 346.1 | 240.3 | 260.1   | -     | -     | -     | -        | -     | -     | -     | -     | -     |
| 62.3                                                                                                                                                  | 225.4 | 338.4 | 228.2 | 255.7   | 162.0 | 162.0 | -     | -        | -     | -     | -     | -     | -     |
| 65.6                                                                                                                                                  | 212.7 | 330.7 | 216.1 | 251.3   | 159.8 | 159.8 | 173.1 | 174.2    | -     | -     | -     | -     | -     |
| 72.2                                                                                                                                                  | 190.7 | 315.3 | 192.9 | 242.5   | 156.5 | 156.5 | 165.3 | 167.6    | 126.8 | 126.8 | -     | -     | -     |
| 78.7                                                                                                                                                  | 172.0 | 302.0 | 174.2 | 233.7   | 152.1 | 152.1 | 158.7 | 159.8    | 122.4 | 122.4 | -     | -     | -     |
| 85.3                                                                                                                                                  | 155.4 | 288.8 | 157.6 | 224.9   | 148.8 | 148.8 | 153.2 | 153.2    | 117.9 | 117.9 | 75.4  | 75.4  | 104.1 |
| 88.6                                                                                                                                                  | 148.3 | 283.3 | 150.5 | 221.6   | 147.2 | 147.2 | 148.8 | 149.9    | 115.7 | 115.7 | 74.4  | 74.4  | 97.9  |
| 91.9                                                                                                                                                  | 141.1 | 277.8 | 143.3 | 218.3   | 145.5 | 145.5 | 144.4 | 146.6    | 113.5 | 113.5 | 73.4  | 73.4  | 95.9  |
| 98.4                                                                                                                                                  | 127.9 | 266.8 | 130.1 | 211.6   | 134.5 | 142.2 | 132.3 | 141.1    | 110.2 | 110.2 | 71.7  | 71.7  | 92.4  |
| 108.3                                                                                                                                                 | 112.7 | 253.5 | 114.6 | 202.8   | 118.5 | 137.2 | 117.3 | 133.9    | 105.4 | 105.4 | 69.1  | 69.1  | 87.9  |
| 111.5                                                                                                                                                 | 107.6 | 249.1 | 109.5 | 199.9   | 113.2 | 135.6 | 112.3 | 131.5    | 103.8 | 103.8 | 68.3  | 68.3  | 86.3  |
| 124.7                                                                                                                                                 | 89.8  | 233.0 | 91.5  | 188.9   | 94.6  | 130.1 | 94.7  | 122.4    | 94.4  | 97.7  | 65.2  | 65.2  | 80.7  |
| 137.8                                                                                                                                                 | 74.5  | 218.3 | 76.1  | 178.6   | 78.7  | 125.7 | 79.6  | 113.5    | 82.2  | 92.2  | 62.4  | 62.4  | 75.4  |
| 150.9                                                                                                                                                 | 61.4  | 206.5 | 62.8  | 170.5   | 65.3  | 121.3 | 67.7  | 107.5    | 70.2  | 87.5  | 59.9  | 59.9  | 68.8  |
| 164.0                                                                                                                                                 | 49.5  | 195.5 | 50.7  | 162.8   | 53.0  | 117.2 | 57.0  | 101.6    | 59.3  | 83.1  | 57.0  | 57.5  | 60.8  |
| 177.2                                                                                                                                                 | 38.6  | 185.2 | 39.7  | 155.4   | 41.7  | 113.5 | 47.6  | 95.9     | 49.6  | 79.1  | 53.6  | 55.3  | 51.4  |
| 190.3                                                                                                                                                 | 30.1  | 177.1 | 31.0  | 149.5   | 32.7  | 110.3 | 38.9  | 91.2     | 40.9  | 75.8  | 44.5  | 53.6  | 43.6  |
| 203.4                                                                                                                                                 | 22.3  | 169.4 | 23.2  | 144.0   | 24.7  | 107.4 | 31.0  | 86.8     | 32.9  | 72.6  | 36.1  | 51.9  | 36.5  |
| 216.5                                                                                                                                                 | 15.4  | 162.0 | 16.3  | 138.9   | 17.6  | 104.7 | 23.8  | 82.7     | 25.6  | 69.7  | 28.4  | 50.3  | 30.2  |
| 229.7                                                                                                                                                 | 9.8   | 155.9 | 10.6  | 134.5   | 11.8  | 102.4 | 17.9  | 79.1     | 19.5  | 67.0  | 22.1  | 48.8  | 24.2  |
| 232.9                                                                                                                                                 | 8.4   | 154.3 | 9.1   | 133.4   | 10.3  | 101.9 | 16.5  | 78.3     | 18.0  | 66.4  | 20.5  | 48.4  | 22.7  |
| 236.2                                                                                                                                                 | -     | 152.1 | 7.7   | 132.3   | 8.8   | 101.2 | 15.0  | 77.4     | 16.5  | 65.7  | 19.0  | 48.1  | 21.2  |
| 242.8                                                                                                                                                 | -     | 149.5 | -     | 130.1   | -     | 100.2 | 12.5  | 75.9     | 14.0  | 64.6  | 16.3  | 47.5  | 18.6  |
| 252.6                                                                                                                                                 | -     | 145.7 | -     | 126.8   | -     | 98.8  | 8.8   | 73.7     | 10.1  | 63.1  | 12.3  | 46.6  | 14.7  |
| 255.9                                                                                                                                                 | -     | 144.4 | -     | 125.7   | -     | 98.3  | -     | 73.0     | 8.8   | 62.4  | 11.0  | 46.3  | 13.4  |
| 259.2                                                                                                                                                 | -     | 143.3 | -     | 124.9   | -     | 98.0  | -     | 72.3     | 7.7   | 61.9  | 9.8   | 46.1  | 12.3  |
| 262.5                                                                                                                                                 | -     | 142.2 | -     | 124.2   | -     | 97.6  | -     | 71.7     | -     | 61.5  | 8.6   | 45.9  | 11.2  |
| 269.0                                                                                                                                                 | -     | 140.0 | -     | 122.7   | -     | 96.9  | -     | 70.3     | -     | 60.5  | -     | 45.4  | 9.0   |
| 272.3                                                                                                                                                 | -     | 138.9 | -     | 122.0   | -     | 96.5  | -     | 69.7     | -     | 60.0  | -     | 45.2  | 7.9   |
| 275.6                                                                                                                                                 | -     | 137.8 | -     | 121.3   | -     | 96.1  | -     | 69.0     | -     | 59.5  | -     | 45.0  | -     |
| 282.2                                                                                                                                                 | -     | 135.6 | -     | 119.8   | -     | 95.5  | -     | 67.8     | -     | 58.7  | -     | 44.5  | -     |
| 285.4                                                                                                                                                 | -     | 134.5 | -     | 119.0   | -     | 95.2  | -     | 67.2     | -     | 58.3  | -     | 44.3  | -     |
| 295.3                                                                                                                                                 | -     | 131.2 | -     | 116.8   | -     | -     | -     | 65.5     | -     | 57.1  | -     | 43.7  | -     |
| 308.4                                                                                                                                                 | -     | 127.5 | -     | 114.6   | -     | -     | -     | 63.6     | -     | 55.8  | -     | 43.1  | -     |
| 321.5                                                                                                                                                 | -     | 121.3 | -     | 113.5   | -     | -     | -     | 61.8     | -     | 54.5  | -     | 42.5  | -     |
| 324.8                                                                                                                                                 | -     | 119.0 | -     | 96.3    | -     | -     | -     | 61.4     | -     | 54.2  | -     | -     | -     |
| 334.6                                                                                                                                                 | -     | 112.4 | -     | -       | -     | -     | -     | 60.2     | -     | 53.4  | -     | -     | -     |
| 347.8                                                                                                                                                 | -     | -     | -     | -       | -     | -     | -     | 58.7     | -     | 52.5  | -     | -     | -     |
| 360.9                                                                                                                                                 | -     | -     | -     | -       | -     | -     | -     | 57.5     | -     | 51.6  | -     | -     | -     |
| 370.7                                                                                                                                                 | -     | -     | -     | -       | -     | -     | -     | 56.7     | -     | -     | -     | -     | -     |
| 374.0                                                                                                                                                 | -     | -     | -     | -       | -     | -     | -     | -        | -     | -     | -     | -     | -     |
| 387.1                                                                                                                                                 | -     | -     | -     | -       | -     | -     | -     | -        | -     | -     | -     | -     | -     |
| 397.0                                                                                                                                                 | -     | -     | -     | -       | -     | -     | -     | -        | -     | -     | -     | -     | -     |
| 400.3                                                                                                                                                 | -     | -     | -     | -       | -     | -     | -     | -        | -     | -     | -     | -     | -     |
| 410.1                                                                                                                                                 | -     | -     | -     | -       | -     | -     | -     | -        | -     | -     | -     | -     | -     |

|  |      |            |            |            |            |            |            |
|--|------|------------|------------|------------|------------|------------|------------|
|  | 0 lb | 143,300 lb | 275,600 lb | 363,800 lb | 452,000 lb | 584,300 lb | 716,600 lb |
|--|------|------------|------------|------------|------------|------------|------------|

|  363,800 lb +  110,200 lb |       |  36.1-62.3 ft |       |  27.6 ft |       |  32.2 ft/s |       | 360°                  |       | ASME B30.5            |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------|-------|-----------------------|-------|-----------------------|------|
|  354.3 ft                                                                                                  |       |                                                                                                |       |                                                                                           |       |                                                                                               |       |                       |       |                       |      |
|  SSL+LF_1                                                                                                  |       |                                                                                                |       |                                                                                           |       |                                                                                               |       |                       |       |                       |      |
| 39.4 ft                                                                                                                                                                                     |       |                                                                                                |       | 78.7 ft                                                                                   |       |                                                                                               |       | 118.1 ft              |       |                       |      |
|  0 lb-<br>716.6<br>klb                                                                                     |       | 0 lb-<br>716.6<br>klb                                                                          |       | 0 lb-<br>716.6<br>klb                                                                     |       | 0 lb-<br>716.6<br>klb                                                                         |       | 0 lb-<br>716.6<br>klb |       | 0 lb-<br>716.6<br>klb |      |
|  15°                                                                                                       |       | 20°                                                                                            |       | 30°                                                                                       |       | 15°                                                                                           |       | 20°                   |       | 30°                   |      |
| ft1,000 lb                                                                                                                                                                                  |       |                                                                                                |       |                                                                                           |       |                                                                                               |       |                       |       |                       |      |
| 52.5                                                                                                                                                                                        | 257.9 | 339.5                                                                                          | -     | -                                                                                         | -     | -                                                                                             | -     | -                     | -     | -                     | -    |
| 55.8                                                                                                                                                                                        | 242.5 | 339.5                                                                                          | 244.7 | 269.0                                                                                     | -     | -                                                                                             | -     | -                     | -     | -                     | -    |
| 59.1                                                                                                                                                                                        | 227.1 | 339.5                                                                                          | 231.5 | 262.4                                                                                     | -     | -                                                                                             | -     | -                     | -     | -                     | -    |
| 62.3                                                                                                                                                                                        | 215.0 | 335.1                                                                                          | 218.8 | 257.9                                                                                     | 163.1 | 163.1                                                                                         | -     | -                     | -     | -                     | -    |
| 65.6                                                                                                                                                                                        | 202.8 | 330.7                                                                                          | 206.1 | 253.5                                                                                     | 160.9 | 160.9                                                                                         | 174.2 | 175.3                 | -     | -                     | -    |
| 72.2                                                                                                                                                                                        | 181.9 | 319.7                                                                                          | 185.2 | 244.7                                                                                     | 157.6 | 157.6                                                                                         | 166.4 | 168.7                 | 127.9 | 127.9                 | -    |
| 78.7                                                                                                                                                                                        | 164.2 | 306.4                                                                                          | 166.4 | 235.9                                                                                     | 153.2 | 153.2                                                                                         | 160.9 | 162.0                 | 123.5 | 123.5                 | -    |
| 85.3                                                                                                                                                                                        | 147.7 | 295.4                                                                                          | 149.9 | 229.3                                                                                     | 149.9 | 149.9                                                                                         | 152.1 | 155.4                 | 119.0 | 119.0                 | 75.8 |
| 91.9                                                                                                                                                                                        | 133.4 | 284.4                                                                                          | 135.6 | 222.7                                                                                     | 141.1 | 146.6                                                                                         | 137.8 | 149.9                 | 115.7 | 115.7                 | 73.9 |
| 98.4                                                                                                                                                                                        | 121.3 | 273.4                                                                                          | 123.5 | 215.0                                                                                     | 127.9 | 143.3                                                                                         | 125.7 | 143.3                 | 111.3 | 111.3                 | 72.1 |
| 108.3                                                                                                                                                                                       | 106.4 | 260.1                                                                                          | 108.4 | 206.1                                                                                     | 112.2 | 138.9                                                                                         | 111.1 | 136.1                 | 105.6 | 106.7                 | 69.6 |
| 111.5                                                                                                                                                                                       | 101.4 | 255.7                                                                                          | 103.3 | 203.2                                                                                     | 107.0 | 137.4                                                                                         | 106.3 | 133.7                 | 103.7 | 105.2                 | 68.7 |
| 124.7                                                                                                                                                                                       | 83.9  | 239.6                                                                                          | 85.6  | 192.5                                                                                     | 88.8  | 131.9                                                                                         | 89.1  | 124.9                 | 92.3  | 99.4                  | 65.6 |
| 137.8                                                                                                                                                                                       | 68.8  | 224.9                                                                                          | 70.3  | 183.0                                                                                     | 73.2  | 126.8                                                                                         | 74.1  | 116.8                 | 77.2  | 93.9                  | 62.8 |
| 150.9                                                                                                                                                                                       | 56.9  | 212.4                                                                                          | 58.3  | 174.2                                                                                     | 61.0  | 122.4                                                                                         | 62.5  | 110.2                 | 65.3  | 89.2                  | 60.5 |
| 164.0                                                                                                                                                                                       | 45.4  | 201.0                                                                                          | 46.7  | 166.1                                                                                     | 49.2  | 118.3                                                                                         | 52.0  | 104.1                 | 54.5  | 84.9                  | 55.9 |
| 177.2                                                                                                                                                                                       | 34.4  | 190.7                                                                                          | 35.7  | 158.7                                                                                     | 37.7  | 114.6                                                                                         | 42.8  | 98.5                  | 45.0  | 80.9                  | 48.9 |
| 190.3                                                                                                                                                                                       | 25.9  | 181.9                                                                                          | 26.9  | 152.9                                                                                     | 28.9  | 111.7                                                                                         | 35.0  | 93.7                  | 37.0  | 77.4                  | 40.7 |
| 203.4                                                                                                                                                                                       | 18.2  | 173.8                                                                                          | 19.0  | 147.3                                                                                     | 20.9  | 108.9                                                                                         | 27.4  | 89.2                  | 29.3  | 74.1                  | 32.8 |
| 216.5                                                                                                                                                                                       | 11.2  | 166.4                                                                                          | 12.1  | 142.2                                                                                     | 13.7  | 106.3                                                                                         | 20.1  | 85.1                  | 21.8  | 71.2                  | 25.1 |
| 223.1                                                                                                                                                                                       | 8.4   | 163.6                                                                                          | 9.0   | 140.0                                                                                     | 10.6  | 105.0                                                                                         | 17.1  | 83.3                  | 18.8  | 69.9                  | 22.0 |
| 226.4                                                                                                                                                                                       | -     | 161.8                                                                                          | -     | 138.9                                                                                     | 9.0   | 104.4                                                                                         | 15.7  | 82.5                  | 17.3  | 69.2                  | 20.4 |
| 229.7                                                                                                                                                                                       | -     | 160.1                                                                                          | -     | 137.8                                                                                     | -     | 103.7                                                                                         | 14.2  | 81.6                  | 15.8  | 68.6                  | 18.8 |
| 242.8                                                                                                                                                                                       | -     | 154.0                                                                                          | -     | 133.4                                                                                     | -     | 101.6                                                                                         | 8.6   | 78.2                  | 10.1  | 66.2                  | 12.9 |
| 246.1                                                                                                                                                                                       | -     | 152.7                                                                                          | -     | 132.3                                                                                     | -     | 101.1                                                                                         | -     | 77.4                  | 8.8   | 65.7                  | 11.6 |
| 252.6                                                                                                                                                                                       | -     | 150.1                                                                                          | -     | 130.1                                                                                     | -     | 100.1                                                                                         | -     | 75.8                  | -     | 64.5                  | 8.8  |
| 255.9                                                                                                                                                                                       | -     | 148.8                                                                                          | -     | 129.0                                                                                     | -     | 99.6                                                                                          | -     | 75.0                  | -     | 63.9                  | -    |
| 259.2                                                                                                                                                                                       | -     | 147.5                                                                                          | -     | 128.1                                                                                     | -     | 99.2                                                                                          | -     | 74.3                  | -     | 63.4                  | -    |
| 265.7                                                                                                                                                                                       | -     | 145.0                                                                                          | -     | 126.2                                                                                     | -     | 98.4                                                                                          | -     | 73.0                  | -     | 62.4                  | -    |
| 269.0                                                                                                                                                                                       | -     | 143.7                                                                                          | -     | 125.3                                                                                     | -     | 98.0                                                                                          | -     | 72.3                  | -     | 61.9                  | -    |
| 275.6                                                                                                                                                                                       | -     | 141.1                                                                                          | -     | 123.5                                                                                     | -     | 97.2                                                                                          | -     | 71.0                  | -     | 60.8                  | -    |
| 282.2                                                                                                                                                                                       | -     | 139.3                                                                                          | -     | 122.4                                                                                     | -     | 96.6                                                                                          | -     | 69.8                  | -     | 60.0                  | -    |
| 295.3                                                                                                                                                                                       | -     | 135.6                                                                                          | -     | 120.2                                                                                     | -     | 95.2                                                                                          | -     | 67.5                  | -     | 58.4                  | -    |
| 301.8                                                                                                                                                                                       | -     | 130.8                                                                                          | -     | 118.7                                                                                     | -     | 92.8                                                                                          | -     | 66.4                  | -     | 57.7                  | -    |
| 308.4                                                                                                                                                                                       | -     | 126.0                                                                                          | -     | 117.2                                                                                     | -     | -                                                                                             | -     | 65.4                  | -     | 57.0                  | -    |
| 321.5                                                                                                                                                                                       | -     | 118.2                                                                                          | -     | 114.6                                                                                     | -     | -                                                                                             | -     | 63.5                  | -     | 55.6                  | -    |
| 334.6                                                                                                                                                                                       | -     | 110.2                                                                                          | -     | 110.2                                                                                     | -     | -                                                                                             | -     | 61.7                  | -     | 54.2                  | -    |
| 337.9                                                                                                                                                                                       | -     | 108.1                                                                                          | -     | 108.6                                                                                     | -     | -                                                                                             | -     | 61.4                  | -     | 54.0                  | -    |
| 341.2                                                                                                                                                                                       | -     | 105.9                                                                                          | -     | 106.9                                                                                     | -     | -                                                                                             | -     | 61.0                  | -     | 53.8                  | -    |
| 347.8                                                                                                                                                                                       | -     | 101.6                                                                                          | -     | -                                                                                         | -     | -                                                                                             | -     | 60.3                  | -     | 53.3                  | -    |
| 351.1                                                                                                                                                                                       | -     | 99.4                                                                                           | -     | -                                                                                         | -     | -                                                                                             | -     | 59.9                  | -     | 53.0                  | -    |
| 360.9                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | 58.9                  | -     | 52.3                  | -    |
| 374.0                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | 57.5                  | -     | 51.6                  | -    |
| 377.3                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | 57.3                  | -     | 51.4                  | -    |
| 387.1                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | 56.7                  | -     | -                     | -    |
| 390.4                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | 56.4                  | -     | -                     | -    |
| 400.3                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | -                     | -     | -                     | -    |
| 413.4                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | -                     | -     | -                     | -    |
| 426.5                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | -                     | -     | -                     | -    |

|                                                                                     |      |            |            |            |            |            |            |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|
|  | 0 lb | 143,300 lb | 275,600 lb | 363,800 lb | 452,000 lb | 584,300 lb | 716,600 lb |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|

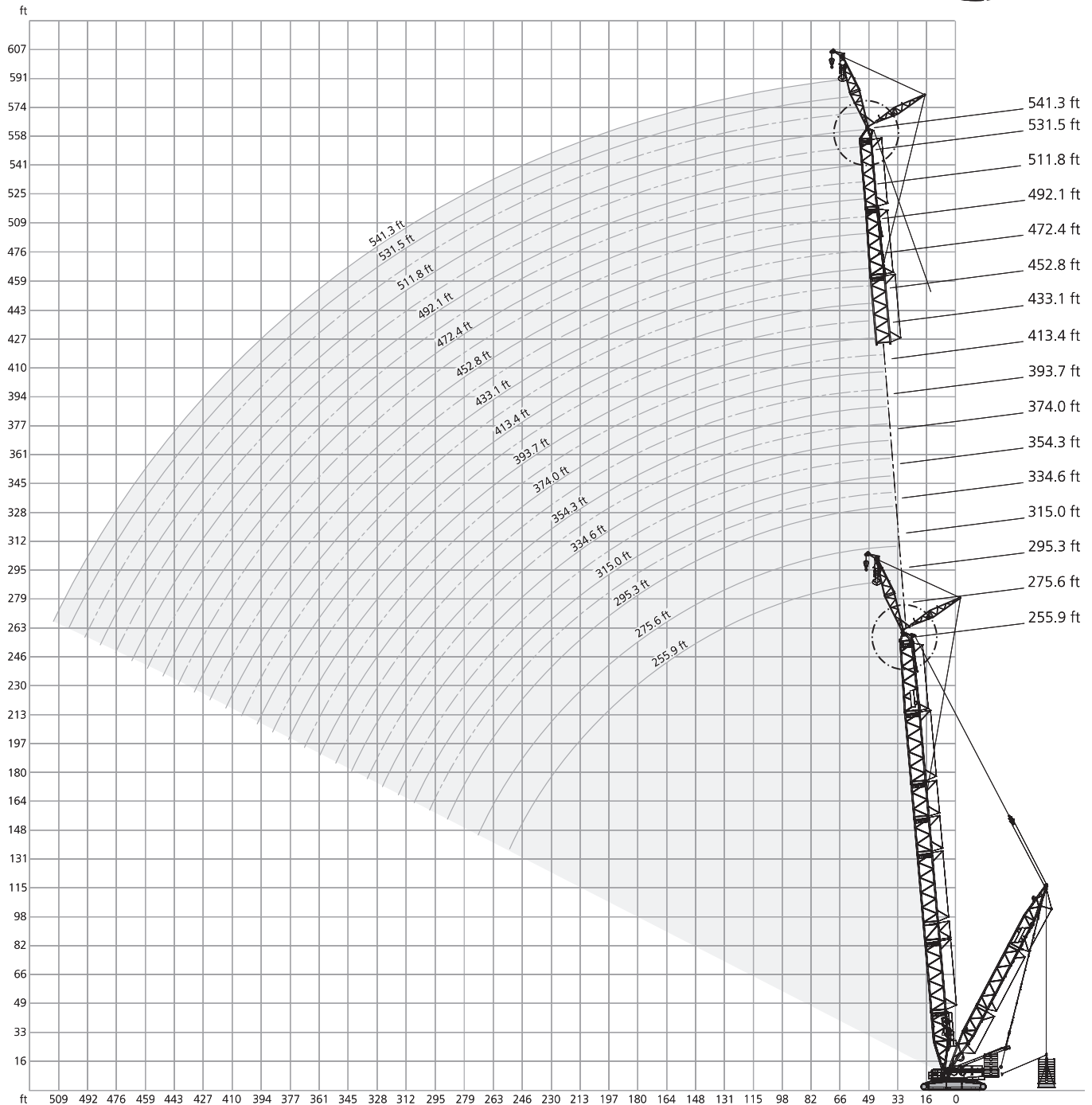
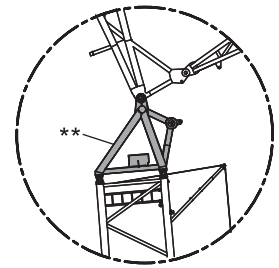




\* Attachable

# LSL+LF\_3, LSL+LF\_4, LSL+LF\_6, LSL+LF\_8, LSL+LF\_10, LSL+LF\_12

CC 3800-1



\*\* Option

|  363,800 lb +  110,200 lb |       |  36.1-62.3 ft |       |  27.6 ft |       |  32.2 ft/s |       | 360°                                                                                  |       | ASME B30.5                                                                            |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|-------|
|  236.2 ft                                                                                                  |       | 255.9 ft                                                                                       |       | 275.6 ft                                                                                  |       |                                                                                               |       |                                                                                       |       |                                                                                       |       |
| LSL+LF_2                                                                                                                                                                                    |       | LSL+LF_3                                                                                       |       | LSL+LF_2                                                                                  |       | LSL+LF_3                                                                                      |       |                                                                                       |       |                                                                                       |       |
|                                                                                                                                                                                             |       | 39.4 ft                                                                                        |       |                                                                                           |       |                                                                                               |       |                                                                                       |       |                                                                                       |       |
|  0 lb                                                                                                      |       | 0-716.6 klb                                                                                    |       | 0 lb                                                                                      |       | 0-716.6 klb                                                                                   |       | 0 lb                                                                                  |       | 0-716.6 klb                                                                           |       |
|  15°                                                                                                       |       |  20°          |       |  30°     |       |  15°         |       |  20° |       |  30° |       |
|  15°                                                                                                       |       |  20°          |       |  30°     |       |  15°         |       |  20° |       |  30° |       |
| ft                                                                                                                                                                                          |       | 1,000 lb                                                                                       |       |                                                                                           |       |                                                                                               |       |                                                                                       |       | ft                                                                                    |       |
| 39.4                                                                                                                                                                                        | 392.4 | 392.4                                                                                          | -     | -                                                                                         | -     | -                                                                                             | -     | -                                                                                     | -     | -                                                                                     | 39.4  |
| 42.7                                                                                                                                                                                        | 377.0 | 380.3                                                                                          | 291.0 | -                                                                                         | 372.6 | 388.0                                                                                         | -     | -                                                                                     | -     | -                                                                                     | 42.7  |
| 45.9                                                                                                                                                                                        | 361.6 | 368.2                                                                                          | 282.2 | -                                                                                         | 346.1 | 374.8                                                                                         | 286.6 | -                                                                                     | 335.1 | 343.9                                                                                 | 273.4 |
| 49.2                                                                                                                                                                                        | 339.5 | 357.1                                                                                          | 275.6 | 179.7                                                                                     | 325.2 | 363.8                                                                                         | 280.0 | -                                                                                     | 317.5 | 335.1                                                                                 | 266.8 |
| 52.5                                                                                                                                                                                        | 317.5 | 346.1                                                                                          | 269.0 | 176.4                                                                                     | 304.2 | 352.7                                                                                         | 273.4 | 178.6                                                                                 | 299.8 | 326.3                                                                                 | 260.1 |
| 59.1                                                                                                                                                                                        | 280.0 | 326.3                                                                                          | 255.7 | 170.9                                                                                     | 269.0 | 332.9                                                                                         | 260.1 | 172.0                                                                                 | 266.8 | 308.6                                                                                 | 249.1 |
| 65.6                                                                                                                                                                                        | 251.3 | 308.6                                                                                          | 244.7 | 164.2                                                                                     | 240.3 | 315.3                                                                                         | 249.1 | 166.4                                                                                 | 238.1 | 295.4                                                                                 | 240.3 |
| 72.2                                                                                                                                                                                        | 227.1 | 291.0                                                                                          | 233.7 | 159.8                                                                                     | 217.2 | 299.8                                                                                         | 238.1 | 162.0                                                                                 | 216.6 | 281.1                                                                                 | 229.3 |
| 78.7                                                                                                                                                                                        | 206.1 | 277.8                                                                                          | 224.9 | 154.3                                                                                     | 197.3 | 286.6                                                                                         | 229.3 | 156.5                                                                                 | 195.1 | 266.8                                                                                 | 220.5 |
| 85.3                                                                                                                                                                                        | 187.4 | 264.6                                                                                          | 216.1 | 149.9                                                                                     | 179.7 | 273.4                                                                                         | 220.5 | 152.1                                                                                 | 178.6 | 255.7                                                                                 | 212.7 |
| 91.9                                                                                                                                                                                        | 172.0 | 253.5                                                                                          | 207.2 | 145.5                                                                                     | 164.2 | 262.4                                                                                         | 212.7 | 147.7                                                                                 | 162.0 | 244.7                                                                                 | 205.0 |
| 98.4                                                                                                                                                                                        | 157.6 | 242.5                                                                                          | 199.5 | 141.1                                                                                     | 151.0 | 251.3                                                                                         | 206.1 | 144.4                                                                                 | 149.4 | 234.8                                                                                 | 198.4 |
| 111.5                                                                                                                                                                                       | 132.6 | 224.9                                                                                          | 187.0 | 134.5                                                                                     | 128.2 | 232.2                                                                                         | 192.9 | 137.1                                                                                 | 126.2 | 216.6                                                                                 | 185.9 |
| 124.7                                                                                                                                                                                       | 111.4 | 208.7                                                                                          | 175.6 | 128.2                                                                                     | 108.1 | 215.7                                                                                         | 181.1 | 130.8                                                                                 | 106.9 | 202.5                                                                                 | 174.9 |
| 137.8                                                                                                                                                                                       | 93.9  | 194.0                                                                                          | 165.3 | 122.4                                                                                     | 90.6  | 201.7                                                                                         | 170.9 | 125.7                                                                                 | 89.3  | 190.7                                                                                 | 165.3 |
| 150.9                                                                                                                                                                                       | 81.1  | 183.0                                                                                          | 157.3 | 117.9                                                                                     | 77.7  | 190.7                                                                                         | 162.0 | 120.5                                                                                 | 76.4  | 180.4                                                                                 | 157.3 |
| 164.0                                                                                                                                                                                       | 69.7  | 172.7                                                                                          | 149.5 | 113.9                                                                                     | 66.0  | 180.4                                                                                         | 154.3 | 116.1                                                                                 | 64.7  | 170.9                                                                                 | 149.5 |
| 177.2                                                                                                                                                                                       | 59.5  | 163.1                                                                                          | 142.2 | 110.2                                                                                     | 55.6  | 170.9                                                                                         | 147.7 | 112.4                                                                                 | 54.5  | 162.0                                                                                 | 142.2 |
| 190.3                                                                                                                                                                                       | 51.6  | 155.8                                                                                          | 137.1 | 107.6                                                                                     | 47.6  | 162.8                                                                                         | 141.8 | 109.8                                                                                 | 46.5  | 154.7                                                                                 | 136.3 |
| 203.4                                                                                                                                                                                       | 44.5  | 149.2                                                                                          | 132.3 | 105.2                                                                                     | 40.4  | 155.4                                                                                         | 136.3 | 107.2                                                                                 | 39.4  | 147.7                                                                                 | 131.2 |
| 213.3                                                                                                                                                                                       | 39.7  | 144.8                                                                                          | 129.0 | 103.6                                                                                     | 35.6  | 150.5                                                                                         | 132.5 | 105.3                                                                                 | 34.6  | 142.7                                                                                 | 127.9 |
| 216.5                                                                                                                                                                                       | 38.1  | 143.3                                                                                          | 127.9 | -                                                                                         | 34.0  | 148.8                                                                                         | 131.2 | 104.7                                                                                 | 33.1  | 141.1                                                                                 | 126.8 |
| 226.4                                                                                                                                                                                       | 34.3  | 139.4                                                                                          | 125.1 | -                                                                                         | 30.1  | 145.0                                                                                         | 128.4 | 103.4                                                                                 | 29.2  | 137.2                                                                                 | 124.0 |
| 229.7                                                                                                                                                                                       | 33.0  | 138.2                                                                                          | 124.2 | -                                                                                         | 28.8  | 143.7                                                                                         | 127.5 | -                                                                                     | 27.9  | 136.0                                                                                 | 123.1 |
| 239.5                                                                                                                                                                                       | 29.3  | 134.8                                                                                          | 122.4 | -                                                                                         | 25.2  | 140.0                                                                                         | 124.9 | -                                                                                     | 24.3  | 132.5                                                                                 | 120.7 |
| 242.8                                                                                                                                                                                       | 28.2  | 133.9                                                                                          | -     | -                                                                                         | 24.1  | 138.9                                                                                         | 124.2 | -                                                                                     | 23.2  | 131.5                                                                                 | 120.2 |
| 249.3                                                                                                                                                                                       | 26.0  | 132.3                                                                                          | -     | -                                                                                         | 22.0  | 136.7                                                                                         | 122.7 | -                                                                                     | 21.1  | 129.7                                                                                 | 119.0 |
| 255.9                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | 19.8  | 134.5                                                                                         | 121.3 | -                                                                                     | 19.0  | 127.9                                                                                 | 117.9 |
| 265.7                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | 17.2  | 132.3                                                                                         | -     | -                                                                                     | 16.3  | 125.7                                                                                 | -     |
| 269.0                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | -                                                                                     | -     | -                                                                                     | -     |
| 272.3                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | -                                                                                     | -     | -                                                                                     | -     |
| 282.2                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | -                                                                                     | -     | -                                                                                     | -     |

|                                                                                     |      |            |            |            |            |            |            |            |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|------------|
|  | 0 lb | 143,300 lb | 209,500 lb | 275,600 lb | 363,800 lb | 452,000 lb | 584,300 lb | 716,600 lb |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|------------|

| <div> <div>363,800 lb +  110,200 lb</div> <div> 36.1-68.9 ft</div> <div> 27.6 ft</div> <div> 32.2 ft/s</div> <div>360°</div> <div>ASME B30.5</div> </div> |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <div> <div>295.3 ft</div> <div>LSL+LF_2</div> <div>LSL+LF_3</div> <div>LSL+LF_6</div> <div>LSL+LF_14</div> <div>LSL+LF_6</div> <div>LSL+LF_14</div> <div>305.1 ft</div> </div>                                                                                                                                                                                                                                                                                                                  |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| <div> <div>39.4 ft</div> <div>0 lb</div> <div>0-716.6 klb</div> <div>0 lb</div> <div>0-716.6 klb</div> <div>0 lb</div> <div>0-716.6 klb</div> </div>                                                                                                                                                                                                                                                                                                                                            |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| <div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> </div>                                                                                                                                                                                                                                                                                 |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1,000 lb |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | ft    |
| 45.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 319.7    | 379.2 | -     | -     | -     | -     | -     | 341.7 | -     | 388.0 | -     | 302.0 | 346.1 | -     | 392.4 | -     | 45.9  |
| 49.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 300.9    | 373.7 | 286.6 | -     | 295.4 | 324.1 | 271.2 | 332.9 | 257.9 | 382.5 | 282.2 | 283.3 | 336.2 | 257.9 | 386.9 | 284.4 | 49.2  |
| 52.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 282.2    | 368.2 | 280.0 | -     | 277.8 | 319.7 | 266.8 | 324.1 | 251.3 | 377.0 | 275.6 | 264.6 | 326.3 | 253.5 | 381.4 | 277.8 | 52.5  |
| 55.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 265.7    | 358.3 | 274.5 | 177.5 | 262.4 | 315.3 | 261.2 | 316.4 | 245.8 | 367.1 | 270.1 | 249.1 | 318.6 | 248.0 | 371.5 | 272.3 | 55.8  |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 249.1    | 348.3 | 269.0 | 175.3 | 246.9 | 310.9 | 255.7 | 308.6 | 240.3 | 357.1 | 264.6 | 233.7 | 310.9 | 242.5 | 361.6 | 266.8 | 59.1  |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 222.7    | 330.7 | 257.9 | 169.8 | 220.5 | 302.0 | 246.9 | 293.2 | 231.5 | 339.5 | 253.5 | 208.3 | 295.4 | 233.7 | 343.9 | 255.7 | 65.6  |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 201.7    | 315.3 | 249.1 | 165.3 | 200.6 | 291.0 | 238.1 | 280.0 | 222.7 | 324.1 | 244.7 | 187.9 | 283.3 | 224.9 | 328.5 | 246.9 | 72.2  |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 183.0    | 302.0 | 238.1 | 160.9 | 180.8 | 280.0 | 229.3 | 266.8 | 215.0 | 308.6 | 235.9 | 167.6 | 271.2 | 216.1 | 313.1 | 238.1 | 78.7  |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 166.4    | 288.8 | 229.3 | 156.5 | 165.3 | 269.0 | 220.5 | 255.7 | 207.2 | 296.5 | 228.2 | 152.7 | 260.1 | 209.4 | 299.8 | 230.4 | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 152.1    | 277.8 | 222.7 | 152.1 | 149.9 | 257.9 | 213.8 | 244.7 | 199.5 | 284.4 | 220.5 | 137.8 | 249.1 | 201.7 | 286.6 | 222.7 | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 138.9    | 266.8 | 216.1 | 148.8 | 137.8 | 249.1 | 207.2 | 235.9 | 192.9 | 273.4 | 213.3 | 126.2 | 240.3 | 195.1 | 276.7 | 215.5 | 98.4  |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 118.9    | 247.7 | 202.8 | 142.2 | 116.6 | 231.5 | 194.7 | 219.9 | 181.9 | 253.5 | 200.1 | 105.3 | 223.2 | 184.1 | 256.8 | 202.3 | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 101.1    | 231.1 | 191.1 | 136.0 | 99.9  | 216.1 | 183.7 | 206.1 | 171.6 | 235.9 | 189.0 | 88.6  | 208.3 | 173.8 | 239.2 | 191.3 | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 85.5     | 217.2 | 180.8 | 130.1 | 84.4  | 202.8 | 174.2 | 192.9 | 162.0 | 220.8 | 179.7 | 73.9  | 195.1 | 164.2 | 224.9 | 181.9 | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 71.7     | 204.7 | 172.0 | 125.7 | 70.8  | 193.3 | 166.8 | 181.9 | 154.0 | 208.3 | 170.9 | 61.1  | 184.8 | 156.2 | 211.6 | 173.1 | 150.9 |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 59.6     | 193.3 | 163.9 | 121.3 | 58.8  | 183.7 | 159.5 | 172.0 | 146.6 | 197.3 | 162.8 | 49.5  | 175.3 | 148.8 | 200.6 | 165.0 | 164.0 |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 49.2     | 183.0 | 156.5 | 116.8 | 48.5  | 174.2 | 152.1 | 163.1 | 140.0 | 187.4 | 155.8 | 39.0  | 166.4 | 142.2 | 190.3 | 158.0 | 177.2 |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 41.1     | 174.9 | 150.6 | 113.9 | 40.4  | 166.1 | 146.2 | 155.8 | 134.8 | 178.6 | 149.9 | 30.9  | 158.4 | 137.1 | 180.8 | 152.1 | 190.3 |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 33.8     | 167.2 | 145.1 | 111.1 | 33.2  | 158.7 | 140.7 | 148.8 | 130.1 | 170.5 | 144.0 | 23.7  | 151.4 | 131.9 | 173.4 | 146.2 | 203.4 |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 27.3     | 159.8 | 140.0 | 108.5 | 26.9  | 152.1 | 135.6 | 142.2 | 125.7 | 163.1 | 138.9 | 17.2  | 145.5 | 126.8 | 166.4 | 141.1 | 216.5 |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 22.0     | 154.0 | 135.6 | 106.1 | 21.6  | 146.2 | 131.2 | 137.1 | 121.3 | 156.5 | 134.5 | 12.1  | 139.6 | 123.2 | 159.8 | 136.7 | 229.7 |
| 239.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 18.3     | 149.7 | 132.5 | 104.5 | 17.9  | 142.0 | 128.1 | 133.4 | 118.5 | 152.7 | 131.7 | 8.2   | 135.6 | 120.3 | 155.4 | 133.9 | 239.5 |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 17.2     | 148.4 | 131.5 | 104.1 | 16.8  | 140.7 | 127.1 | 132.3 | 117.9 | 151.4 | 130.8 | -     | 134.5 | 119.4 | 154.0 | 133.0 | 242.8 |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12.8     | 143.3 | 127.9 | 102.5 | 12.6  | 135.6 | 123.5 | 127.9 | 114.6 | 146.6 | 127.5 | -     | 130.1 | 115.7 | 148.8 | 129.4 | 255.9 |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9.3      | 138.9 | 124.9 | -     | 8.9   | 132.3 | 120.8 | 124.2 | 111.7 | 142.2 | 124.6 | -     | 126.4 | 112.8 | 144.4 | 125.7 | 269.0 |
| 272.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8.4      | 137.8 | 124.2 | -     | 7.9   | 131.2 | 120.2 | 123.3 | 111.0 | 141.1 | 124.6 | -     | 125.5 | 112.1 | 143.3 | 125.1 | 272.3 |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 135.2 | 122.4 | -     | -     | 128.6 | 117.9 | 120.9 | 109.7 | 138.5 | 122.6 | -     | 123.1 | 110.6 | 140.0 | 123.5 | 282.2 |
| 288.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 133.7 | 121.3 | -     | -     | 127.1 | 116.8 | 119.4 | 109.1 | 136.7 | 121.3 | -     | 121.6 | 109.9 | 137.8 | 122.4 | 288.7 |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 132.3 | -     | -     | -     | 125.7 | -     | 117.9 | -     | 135.2 | -     | -     | 120.2 | 109.1 | 136.3 | 121.6 | 295.3 |
| 298.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 131.2 | -     | -     | -     | 125.7 | -     | 117.9 | -     | 134.5 | -     | -     | 119.3 | 101.0 | 135.6 | 121.3 | 298.6 |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 116.8 | -     | 133.4 | -     | 308.4 |



0 lb

143,300 lb

209,500 lb

275,600 lb

363,800 lb

452,000 lb

584,300 lb

716,600 lb

LSL+LF\_2 – LSL+LF\_6:  36.1 ft – 62.3 ft

LSL+LF\_14:  42.7 ft – 68.9 ft

LSL+LF\_14:  496,100 lb +  110,200 lb



| <div><div><div><div><div></div><div></div><div></div></div><div>363,800 lb + <div><div><div></div><div></div><div></div></div></div><div>110,200 lb</div></div><div><div><div><div></div><div></div><div></div></div><div>36.1-68.9 ft</div></div><div><div><div><div></div><div></div><div></div></div><div>27.6 ft</div></div><div><div><div><div></div><div></div><div></div></div><div>32.2 ft/s</div></div><div>360°</div><div>ASME B30.5</div></div></div></div></div></div></div> |          |             |          |       |       |             |       |          |       |          |       |             |           |       |           |       |       |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|----------|-------|-------|-------------|-------|----------|-------|----------|-------|-------------|-----------|-------|-----------|-------|-------|-------|
| 315.0 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |          |       |       |             |       |          |       |          |       |             |           |       |           |       |       |       |
| LSL+LF_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             | LSL+LF_3 |       |       | LSL+LF_4    |       | LSL+LF_6 |       | LSL+LF_8 |       |             | LSL+LF_10 |       | LSL+LF_14 |       |       |       |
| 39.4 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |             |          |       |       |             |       |          |       |          |       |             |           |       |           |       |       |       |
| 0 lb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          | 0-716.6 klb |          | 0 lb  |       | 0-716.6 klb |       |          |       | 0 lb     |       | 0-716.6 klb |           |       |           |       |       |       |
| 15°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          | 20°         |          | 30°   |       | 15°         |       | 20°      |       | 15°      |       | 20°         |           | 15°   |           | 20°   |       |       |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1,000 lb |             |          |       |       |             |       |          |       |          |       |             |           |       |           |       | ft    |       |
| 45.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 308.6    | 346.1       | -        | -     | -     | -           | -     | -        | 348.3 | -        | 324.1 | 392.4       | -         | 392.4 | -         | 392.4 | -     | 45.9  |
| 49.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 289.9    | 345.0       | 291.0    | -     | 284.4 | 317.5       | 271.2 | -        | 338.4 | 260.1    | 304.2 | 390.2       | -         | 390.2 | -         | 388.0 | -     | 49.2  |
| 52.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 271.2    | 343.9       | 284.4    | -     | 266.8 | 315.3       | 269.0 | -        | 328.5 | 253.5    | 284.4 | 388.0       | 284.4     | 388.0 | 284.4     | 383.6 | 280.0 | 52.5  |
| 55.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 255.7    | 342.8       | 278.9    | 178.6 | 251.3 | 312.0       | 264.6 | -        | 320.8 | 249.1    | 269.0 | 378.1       | 278.9     | 378.1 | 278.9     | 373.7 | 274.5 | 55.8  |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 240.3    | 341.7       | 273.4    | 176.4 | 235.9 | 308.6       | 260.1 | -        | 313.1 | 244.7    | 253.5 | 368.2       | 273.4     | 368.2 | 273.4     | 363.8 | 269.0 | 59.1  |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 217.2    | 337.3       | 262.4    | 170.9 | 212.7 | 302.0       | 249.1 | -        | 297.6 | 233.7    | 227.1 | 352.7       | 264.6     | 352.7 | 264.6     | 346.1 | 257.9 | 65.6  |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 195.1    | 321.9       | 251.3    | 166.4 | 192.9 | 292.1       | 240.3 | -        | 285.5 | 224.9    | 206.1 | 337.3       | 255.7     | 337.3 | 255.7     | 330.7 | 249.1 | 72.2  |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 176.4    | 308.6       | 242.5    | 162.0 | 173.1 | 282.2       | 233.7 | -        | 273.4 | 218.3    | 185.2 | 321.9       | 246.9     | 321.9 | 246.9     | 317.5 | 240.3 | 78.7  |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 160.9    | 295.4       | 233.7    | 157.6 | 158.2 | 272.3       | 224.9 | -        | 262.4 | 210.5    | 169.2 | 309.7       | 238.1     | 309.7 | 238.1     | 304.2 | 232.6 | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 146.6    | 284.4       | 227.1    | 154.3 | 143.3 | 262.4       | 218.3 | -        | 251.3 | 203.9    | 153.2 | 297.6       | 231.5     | 297.6 | 231.5     | 291.0 | 224.9 | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 134.5    | 273.4       | 220.5    | 149.9 | 131.7 | 254.6       | 211.6 | -        | 242.5 | 197.3    | 140.5 | 286.6       | 222.7     | 286.6 | 222.7     | 280.0 | 217.7 | 98.4  |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 114.8    | 254.3       | 207.2    | 144.0 | 110.9 | 239.2       | 199.2 | -        | 226.0 | 186.3    | 118.3 | 266.8       | 210.9     | 266.8 | 210.9     | 260.1 | 204.5 | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 97.6     | 237.4       | 195.5    | 138.2 | 94.3  | 224.5       | 188.1 | -        | 211.6 | 176.0    | 100.9 | 249.9       | 200.3     | 249.9 | 200.3     | 243.6 | 193.5 | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 82.9     | 222.7       | 185.2    | 132.3 | 79.6  | 210.5       | 178.6 | -        | 198.4 | 166.4    | 85.3  | 233.7       | 190.7     | 233.7 | 190.7     | 228.9 | 184.1 | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 69.5     | 210.9       | 176.4    | 127.9 | 66.7  | 199.5       | 171.2 | -        | 187.4 | 158.4    | 71.2  | 221.9       | 181.9     | 221.9 | 181.9     | 215.0 | 175.3 | 150.9 |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 57.6     | 199.9       | 168.3    | 123.5 | 55.0  | 189.6       | 163.9 | -        | 177.5 | 151.0    | 58.7  | 210.5       | 173.8     | 210.5 | 173.8     | 203.9 | 167.2 | 164.0 |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 47.2     | 189.6       | 160.9    | 119.0 | 44.5  | 180.8       | 156.5 | -        | 168.7 | 144.4    | 47.8  | 199.5       | 166.4     | 199.5 | 166.4     | 193.6 | 159.8 | 177.2 |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 38.9     | 180.8       | 155.1    | 115.4 | 36.4  | 172.7       | 150.6 | -        | 161.3 | 138.5    | 39.2  | 190.7       | 159.8     | 190.7 | 159.8     | 184.1 | 153.2 | 190.3 |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 31.6     | 172.7       | 149.2    | 112.4 | 29.2  | 165.0       | 144.8 | -        | 154.3 | 133.4    | 31.4  | 182.6       | 154.0     | 182.6 | 154.0     | 176.0 | 148.1 | 203.4 |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 25.1     | 165.3       | 143.3    | 110.2 | 22.7  | 157.6       | 138.9 | -        | 147.7 | 129.0    | 24.5  | 175.3       | 148.8     | 175.3 | 148.8     | 168.7 | 143.3 | 216.5 |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 19.8     | 159.5       | 138.9    | 107.9 | 17.4  | 151.8       | 134.5 | -        | 142.2 | 124.6    | 18.9  | 168.7       | 144.4     | 168.7 | 144.4     | 162.0 | 138.9 | 229.7 |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15.0     | 153.6       | 134.8    | 105.7 | 12.6  | 145.9       | 130.4 | -        | 136.7 | 120.5    | 13.8  | 162.7       | 140.4     | 162.7 | 140.4     | 156.2 | 134.5 | 242.8 |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10.6     | 147.7       | 131.2    | 103.8 | 8.4   | 140.0       | 126.8 | -        | 132.3 | 116.8    | 9.3   | 156.5       | 136.7     | 156.5 | 136.7     | 151.0 | 130.6 | 255.9 |
| 259.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 9.6      | 146.6       | 130.1    | 103.5 | -     | 139.1       | 125.8 | -        | 131.2 | 116.3    | 8.2   | 155.4       | 136.0     | 155.4 | 136.0     | 149.9 | 129.8 | 259.2 |
| 265.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 7.7      | 144.4       | 128.3    | 102.7 | -     | 137.2       | 124.0 | -        | 129.0 | 115.2    | -     | 153.2       | 134.5     | 153.2 | 134.5     | 147.7 | 128.4 | 265.7 |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 143.3       | 127.4    | 102.3 | -     | 136.3       | 123.1 | -        | 127.9 | 114.6    | -     | 152.1       | 133.7     | 152.1 | 133.7     | 146.6 | 127.9 | 269.0 |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 139.3       | 124.6    | -     | -     | 132.6       | 120.2 | -        | 124.2 | 112.4    | -     | 148.1       | 130.8     | 148.1 | 130.8     | 142.2 | 124.9 | 282.2 |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 135.6       | 122.4    | -     | -     | 129.0       | 117.9 | -        | 121.3 | 110.0    | -     | 144.4       | 127.9     | 144.4 | 127.9     | 138.5 | 122.6 | 295.3 |
| 305.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 133.4       | 121.3    | -     | -     | 127.3       | 116.8 | -        | 119.6 | 108.7    | -     | 142.2       | 126.8     | 142.2 | 126.8     | 136.3 | 121.3 | 305.1 |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 132.6       | -        | -     | -     | 126.8       | -     | -        | 119.0 | -        | -     | 141.5       | -         | 141.5 | -         | 135.6 | -     | 308.4 |
| 315.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 131.2       | -        | -     | -     | 125.7       | -     | -        | 117.9 | -        | -     | 140.0       | -         | 140.0 | -         | 133.4 | -     | 315.0 |



| <div><div><div><div></div><div></div><div></div></div><div>363,800 lb + <div><div></div><div></div><div></div></div>110,200 lb</div></div><div><div><div></div><div></div><div></div></div>36.1-68.9 ft</div><div><div><div></div><div></div><div></div></div>27.6 ft</div><div><div><div></div><div></div><div></div></div>32.2 ft/s</div><div>360°</div><div>ASME B30.5</div></div> |          |   |   |   |   |   |   |   |       |       |       |       |       |       |       |       |       |       |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---|---|---|---|---|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <div><div><div></div><div></div><div></div></div><div>324.8 ft</div><div><div><div></div><div></div><div></div></div>39.4 ft</div><div><div><div></div><div></div><div></div></div>0 lb0-716.6 klb0 lb0-716.6 klb0 lb0-716.6 klb0 lb0-716.6 klb</div><div><div><div></div><div></div><div></div></div>15°20°30°15°20°15°20°15°20°15°20°15°20°15°20°</div></div>                       |          |   |   |   |   |   |   |   |       |       |       |       |       |       |       |       |       |       |       |
|                                                                                                                                                                                                                                                                                                                                                                                       |          |   |   |   |   |   |   |   |       |       |       |       |       |       |       |       |       |       |       |
|                                                                                                                                                                                                                                                                                                                                                                                       |          |   |   |   |   |   |   |   |       |       |       |       |       |       |       |       |       |       |       |
|                                                                                                                                                                                                                                                                                                                                                                                       |          |   |   |   |   |   |   |   |       |       |       |       |       |       |       |       |       |       |       |
| ft                                                                                                                                                                                                                                                                                                                                                                                    | 1,000 lb |   |   |   |   |   |   |   |       |       |       |       |       |       |       |       | ft    |       |       |
| 49.2                                                                                                                                                                                                                                                                                                                                                                                  | -        | - | - | - | - | - | - | - | 269.0 | 339.5 | -     | 297.6 | 392.4 | -     | 392.4 | -     | 392.4 | -     | 49.2  |
| 52.5                                                                                                                                                                                                                                                                                                                                                                                  | -        | - | - | - | - | - | - | - | 251.3 | 332.9 | 255.7 | 277.8 | 390.2 | 286.6 | 390.2 | 286.6 | 388.0 | 280.0 | 52.5  |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                  | -        | - | - | - | - | - | - | - | 222.7 | 315.3 | 244.7 | 246.9 | 372.6 | 275.6 | 372.6 | 275.6 | 368.2 | 269.0 | 59.1  |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                  | -        | - | - | - | - | - | - | - | 198.4 | 302.0 | 235.9 | 220.5 | 354.9 | 266.8 | 354.9 | 266.8 | 350.5 | 260.1 | 65.6  |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                  | -        | - | - | - | - | - | - | - | 179.1 | 288.8 | 227.1 | 200.1 | 340.6 | 255.7 | 340.6 | 255.7 | 335.1 | 249.1 | 72.2  |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                  | -        | - | - | - | - | - | - | - | 159.8 | 275.6 | 220.5 | 179.7 | 326.3 | 246.9 | 326.3 | 246.9 | 319.7 | 240.3 | 78.7  |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                  | -        | - | - | - | - | - | - | - | 145.5 | 265.7 | 212.7 | 164.2 | 313.1 | 240.3 | 313.1 | 240.3 | 307.5 | 232.6 | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                  | -        | - | - | - | - | - | - | - | 131.2 | 255.7 | 206.1 | 148.8 | 299.8 | 231.5 | 299.8 | 231.5 | 295.4 | 224.9 | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                  | -        | - | - | - | - | - | - | - | 119.7 | 245.8 | 199.5 | 136.7 | 289.9 | 224.9 | 289.9 | 224.9 | 284.4 | 218.8 | 98.4  |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                 | -        | - | - | - | - | - | - | - | 99.0  | 228.2 | 187.8 | 114.9 | 270.1 | 213.1 | 270.1 | 213.1 | 263.5 | 206.7 | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                 | -        | - | - | - | - | - | - | - | 82.5  | 214.2 | 177.1 | 97.4  | 252.8 | 202.1 | 252.8 | 202.1 | 245.8 | 195.7 | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                 | -        | - | - | - | - | - | - | - | 68.1  | 201.7 | 167.6 | 82.0  | 238.1 | 191.8 | 238.1 | 191.8 | 231.5 | 185.9 | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                 | -        | - | - | - | - | - | - | - | 56.5  | 190.7 | 160.2 | 68.6  | 225.6 | 183.7 | 225.6 | 183.7 | 218.3 | 176.4 | 150.9 |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                 | -        | - | - | - | - | - | - | - | 45.5  | 180.4 | 153.2 | 56.4  | 213.8 | 176.0 | 213.8 | 176.0 | 207.2 | 169.0 | 164.0 |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                 | -        | - | - | - | - | - | - | - | 35.1  | 170.9 | 146.6 | 45.4  | 202.8 | 168.7 | 202.8 | 168.7 | 196.9 | 162.0 | 177.2 |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                 | -        | - | - | - | - | - | - | - | 27.0  | 163.5 | 140.7 | 36.7  | 194.0 | 162.0 | 194.0 | 162.0 | 187.4 | 155.4 | 190.3 |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                 | -        | - | - | - | - | - | - | - | 19.6  | 156.5 | 135.2 | 29.0  | 185.6 | 156.2 | 185.6 | 156.2 | 179.3 | 150.3 | 203.4 |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                 | -        | - | - | - | - | - | - | - | 13.0  | 149.9 | 130.1 | 22.0  | 177.5 | 151.0 | 177.5 | 151.0 | 172.0 | 145.1 | 216.5 |
| 226.4                                                                                                                                                                                                                                                                                                                                                                                 | -        | - | - | - | - | - | - | - | 8.8   | 145.7 | 127.2 | 17.9  | 172.5 | 147.7 | 172.5 | 147.7 | 167.0 | 141.3 | 226.4 |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                 | -        | - | - | - | - | - | - | - | -     | 144.2 | 126.3 | 16.5  | 170.9 | 146.6 | 170.9 | 146.6 | 165.3 | 140.0 | 229.7 |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                 | -        | - | - | - | - | - | - | - | -     | 138.9 | 122.7 | 11.3  | 164.9 | 142.2 | 165.3 | 142.2 | 159.5 | 136.3 | 242.8 |
| 252.6                                                                                                                                                                                                                                                                                                                                                                                 | -        | - | - | - | - | - | - | - | -     | 135.6 | 120.0 | 7.7   | 160.9 | 138.9 | 161.2 | 138.9 | 154.3 | 133.4 | 252.6 |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                 | -        | - | - | - | - | - | - | - | -     | 134.5 | 119.0 | -     | 159.8 | 137.8 | 159.8 | 137.8 | 153.2 | 132.3 | 255.9 |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                 | -        | - | - | - | - | - | - | - | -     | 130.1 | 116.1 | -     | 154.7 | 134.8 | 154.7 | 134.8 | 148.8 | 129.0 | 269.0 |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                 | -        | - | - | - | - | - | - | - | -     | 126.0 | 113.2 | -     | 150.3 | 131.9 | 150.3 | 131.9 | 144.4 | 126.0 | 282.2 |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                 | -        | - | - | - | - | - | - | - | -     | 122.4 | 110.2 | -     | 146.6 | 129.0 | 146.6 | 129.0 | 140.4 | 123.5 | 295.3 |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                 | -        | - | - | - | - | - | - | - | -     | 120.2 | 109.2 | -     | 142.9 | 127.5 | 142.9 | 127.5 | 136.7 | 121.3 | 308.4 |
| 315.0                                                                                                                                                                                                                                                                                                                                                                                 | -        | - | - | - | - | - | - | - | -     | 119.0 | 108.5 | -     | 141.1 | 126.8 | 141.1 | 126.8 | 134.9 | 121.3 | 315.0 |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                 | -        | - | - | - | - | - | - | - | -     | 117.6 | -     | -     | 138.2 | -     | 136.7 | -     | 133.2 | -     | 321.5 |
| 324.8                                                                                                                                                                                                                                                                                                                                                                                 | -        | - | - | - | - | - | - | - | -     | 116.8 | -     | -     | 136.7 | -     | 134.5 | -     | 132.3 | -     | 324.8 |

 0 lb   143,300 lb   209,500 lb   275,600 lb   363,800 lb   452,000 lb   584,300 lb   716,600 lb

LSL+LF\_2 – LSL+LF\_6:  36.1 ft – 62.3 ft

LSL+LF\_8 – LSL+LF\_10:  36.1 ft – 68.9 ft

LSL+LF\_14:  42.7 ft – 68.9 ft

LSL+LF\_14:  496,100 lb +  110,200 lb

| <div><div><div><div></div><div></div><div></div></div><div>363,800 lb + <div><div></div><div></div><div></div></div>110,200 lb</div><div><div><div></div><div></div><div></div></div><div>36.1-68.9 ft</div></div><div><div><div></div><div></div><div></div></div><div>27.6 ft</div></div><div><div><div></div><div></div><div></div></div><div>32.2 ft/s</div></div><div>360°</div><div>ASME B30.5</div></div></div> |          |             |       |          |       |       |             |          |       |          |       |          |       |             |           |       |           |       |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|-------|----------|-------|-------|-------------|----------|-------|----------|-------|----------|-------|-------------|-----------|-------|-----------|-------|-------|
| 334.6 ft                                                                                                                                                                                                                                                                                                                                                                                                               |          |             |       |          |       |       |             |          |       |          |       |          |       |             |           |       |           |       |       |
| LSL+LF_2                                                                                                                                                                                                                                                                                                                                                                                                               |          |             |       | LSL+LF_3 |       |       |             | LSL+LF_4 |       | LSL+LF_6 |       | LSL+LF_8 |       |             | LSL+LF_10 |       | LSL+LF_14 |       |       |
| 39.4 ft                                                                                                                                                                                                                                                                                                                                                                                                                |          |             |       |          |       |       |             |          |       |          |       |          |       |             |           |       |           |       |       |
| 0 lb                                                                                                                                                                                                                                                                                                                                                                                                                   |          | 0-716.6 klb |       |          | 0 lb  |       | 0-716.6 klb |          |       |          |       | 0 lb     |       | 0-716.6 klb |           |       |           |       |       |
| 15°                                                                                                                                                                                                                                                                                                                                                                                                                    |          | 20°         |       | 30°      | 15°   |       | 20°         |          | 15°   | 20°      |       | 15°      | 20°   |             | 15°       | 20°   |           |       |       |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                     | 1,000 lb |             |       |          |       |       |             |          |       |          |       |          |       |             |           |       | ft        |       |       |
| 49.2                                                                                                                                                                                                                                                                                                                                                                                                                   | 277.8    | 324.1       | -     | -        | -     | -     | -           | 315.3    | -     | 341.7    | -     | 291.0    | 392.4 | -           | 392.4     | -     | 392.4     | -     | 49.2  |
| 52.5                                                                                                                                                                                                                                                                                                                                                                                                                   | 260.1    | 324.1       | 286.6 | -        | 255.7 | 306.4 | 264.6       | 310.9    | 273.4 | 335.1    | 257.9 | 273.4    | 392.4 | 288.8       | 392.4     | 288.8 | 390.2     | 282.2 | 52.5  |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                                   | 231.5    | 321.9       | 275.6 | 177.5    | 227.1 | 302.0 | 260.1       | 306.4    | 269.0 | 317.5    | 246.9 | 242.5    | 374.8 | 277.8       | 374.8     | 277.8 | 370.4     | 271.2 | 59.1  |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                   | 207.2    | 319.7       | 264.6 | 172.0    | 203.9 | 295.4 | 251.3       | 302.0    | 262.4 | 304.2    | 238.1 | 217.2    | 357.1 | 266.8       | 357.1     | 266.8 | 352.7     | 260.1 | 65.6  |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                   | 187.4    | 317.5       | 255.7 | 167.6    | 184.6 | 288.8 | 242.5       | 294.3    | 253.5 | 291.0    | 229.3 | 196.8    | 342.8 | 257.9       | 342.8     | 257.9 | 337.3     | 251.3 | 72.2  |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                   | 168.7    | 310.9       | 246.9 | 163.1    | 165.3 | 282.2 | 235.9       | 286.6    | 244.7 | 277.8    | 220.5 | 176.4    | 328.5 | 249.1       | 328.5     | 249.1 | 324.1     | 242.5 | 78.7  |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                   | 153.2    | 302.0       | 238.1 | 159.8    | 151.0 | 274.5 | 229.3       | 277.8    | 235.9 | 267.9    | 213.8 | 160.4    | 316.4 | 242.5       | 316.4     | 242.5 | 310.9     | 234.8 | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                   | 140.0    | 291.0       | 231.5 | 155.4    | 136.7 | 266.8 | 222.7       | 269.0    | 229.3 | 257.9    | 207.2 | 144.4    | 304.2 | 233.7       | 304.2     | 233.7 | 297.6     | 227.1 | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                   | 127.9    | 280.0       | 224.9 | 152.1    | 125.1 | 259.0 | 216.1       | 261.2    | 222.7 | 249.1    | 200.6 | 132.8    | 293.2 | 227.1       | 293.2     | 227.1 | 286.6     | 221.0 | 98.4  |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                  | 108.6    | 260.9       | 211.6 | 145.5    | 104.8 | 244.7 | 203.6       | 245.8    | 210.9 | 231.5    | 189.6 | 111.4    | 273.4 | 215.3       | 273.4     | 215.3 | 266.8     | 208.9 | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                  | 91.8     | 244.0       | 199.9 | 139.6    | 88.9  | 231.9 | 192.5       | 231.5    | 199.9 | 216.4    | 179.3 | 94.0     | 256.5 | 204.3       | 256.5     | 204.3 | 250.2     | 197.9 | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                  | 77.4     | 229.3       | 189.6 | 134.5    | 74.5  | 219.4 | 183.0       | 218.3    | 189.6 | 203.9    | 169.8 | 78.7     | 240.3 | 194.0       | 240.3     | 194.0 | 235.2     | 188.1 | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                  | 65.2     | 217.5       | 180.8 | 129.3    | 62.6  | 206.9 | 174.9       | 206.5    | 180.8 | 192.9    | 161.7 | 66.1     | 228.5 | 185.9       | 228.5     | 185.9 | 220.5     | 178.6 | 150.9 |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                  | 53.8     | 206.1       | 172.7 | 124.9    | 51.4  | 195.5 | 167.6       | 195.8    | 172.3 | 183.0    | 154.3 | 54.2     | 217.2 | 178.2       | 217.2     | 178.2 | 210.2     | 171.2 | 164.0 |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                  | 43.2     | 195.1       | 165.3 | 121.3    | 41.0  | 185.2 | 160.9       | 186.3    | 164.2 | 174.2    | 147.7 | 43.0     | 206.1 | 170.9       | 206.1     | 170.9 | 200.3     | 164.2 | 177.2 |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                  | 35.1     | 186.3       | 158.7 | 117.6    | 32.9  | 177.8 | 155.1       | 178.2    | 157.6 | 166.1    | 141.8 | 34.3     | 197.3 | 164.2       | 197.3     | 164.2 | 190.7     | 157.6 | 190.3 |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                  | 27.8     | 178.2       | 152.9 | 114.3    | 25.6  | 170.5 | 149.2       | 170.5    | 151.8 | 158.7    | 136.7 | 26.5     | 188.9 | 158.4       | 188.9     | 158.4 | 181.9     | 151.8 | 203.4 |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                  | 21.2     | 170.9       | 147.7 | 111.3    | 19.2  | 163.1 | 143.3       | 163.1    | 146.6 | 152.1    | 132.3 | 19.6     | 180.8 | 153.2       | 180.8     | 153.2 | 174.2     | 146.6 | 216.5 |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                  | 15.9     | 164.2       | 142.6 | 109.3    | 13.9  | 156.5 | 138.9       | 157.3    | 142.2 | 146.4    | 127.9 | 14.0     | 174.2 | 148.1       | 174.2     | 148.1 | 167.6     | 142.2 | 229.7 |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                  | 10.9     | 158.2       | 138.2 | 107.2    | 8.9   | 151.0 | 134.5       | 151.4    | 137.8 | 141.1    | 123.8 | 8.8      | 167.6 | 143.5       | 167.3     | 143.7 | 161.7     | 137.8 | 242.8 |
| 246.1                                                                                                                                                                                                                                                                                                                                                                                                                  | 9.8      | 156.8       | 137.3 | 106.7    | 7.7   | 149.9 | 133.4       | 149.9    | 136.7 | 140.0    | 122.9 | -        | 166.2 | 142.6       | 166.0     | 142.7 | 160.2     | 136.7 | 246.1 |
| 249.3                                                                                                                                                                                                                                                                                                                                                                                                                  | 8.6      | 155.4       | 136.5 | 106.2    | -     | 148.4 | 132.3       | 148.4    | 135.6 | 138.9    | 122.0 | -        | 164.8 | 141.8       | 164.7     | 141.8 | 158.7     | 135.6 | 249.3 |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 153.2       | 134.5 | 105.2    | -     | 145.5 | 130.1       | 145.5    | 133.4 | 136.7    | 120.2 | -        | 162.0 | 140.0       | 162.0     | 140.0 | 156.2     | 133.7 | 255.9 |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 148.1       | 130.8 | 103.5    | -     | 141.1 | 127.1       | 141.1    | 129.7 | 132.3    | 117.2 | -        | 156.9 | 136.3       | 156.9     | 136.3 | 151.0     | 130.1 | 269.0 |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 143.7       | 127.5 | 102.1    | -     | 137.1 | 124.2       | 137.1    | 126.4 | 128.2    | 114.3 | -        | 152.1 | 133.0       | 152.1     | 133.0 | 146.6     | 127.1 | 282.2 |
| 285.4                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 142.7       | 126.8 | 101.6    | -     | 136.1 | 123.5       | 136.1    | 125.7 | 127.3    | 113.5 | -        | 151.0 | 132.3       | 151.0     | 132.3 | 145.5     | 126.4 | 285.4 |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 140.0       | 124.6 | -        | -     | 133.4 | 121.3       | 133.4    | 123.5 | 124.6    | 111.3 | -        | 147.7 | 130.1       | 147.7     | 130.1 | 142.6     | 124.6 | 295.3 |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 134.1       | 122.4 | -        | -     | 129.7 | 119.0       | 129.7    | 121.3 | 121.6    | 110.0 | -        | 142.6 | 127.9       | 141.8     | 127.9 | 138.9     | 122.4 | 308.4 |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 127.5       | 120.2 | -        | -     | 124.9 | 116.8       | 124.2    | 119.0 | 117.9    | 108.5 | -        | 136.0 | 126.8       | 134.8     | 126.8 | 131.5     | 121.3 | 321.5 |
| 324.8                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 125.7       | 78.5  | -        | -     | 123.5 | -           | 122.4    | 49.2  | 116.8    | -     | -        | 133.9 | -           | 132.8     | -     | 129.7     | -     | 324.8 |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 120.2       | -     | -        | -     | 119.0 | -           | 116.8    | -     | 111.3    | -     | -        | 127.9 | -           | 126.8     | -     | 124.6     | -     | 334.6 |

| <div><div><div><div></div></div></div><div>363,800 lb + <div><div></div><div></div></div>110,200 lb</div><div><div><div></div><div></div></div>36.1-68.9 ft</div><div><div><div></div><div></div></div>27.6 ft</div><div><div><div></div><div></div></div>32.2 ft/s</div><div>360°</div><div>ASME B30.5</div></div> |          |   |   |   |   |   |   |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---|---|---|---|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <div><div><div><div></div></div></div><div>344.5 ft</div><div><div>LSL+LF_2</div><div>LSL+LF_3</div><div>LSL+LF_4</div><div>LSL+LF_6</div><div>LSL+LF_8</div><div>LSL+LF_10</div><div>LSL+LF_14</div></div></div>                                                                                                   |          |   |   |   |   |   |   |       |       |       |       |       |       |       |       |       |       |       |       |
| <div><div><div><div></div></div></div><div>39.4 ft</div><div><div>0 lb</div><div>0-716.6 klb</div><div>0 lb</div><div>0-716.6 klb</div><div>0 lb</div><div>0-716.6 klb</div><div>0 lb</div><div>0-716.6 klb</div></div></div>                                                                                       |          |   |   |   |   |   |   |       |       |       |       |       |       |       |       |       |       |       |       |
| <div><div><div><div></div></div></div><div>15°</div><div>20°</div><div>30°</div><div>15°</div><div>20°</div><div>15°</div><div>20°</div><div>15°</div><div>20°</div><div>15°</div><div>20°</div><div>15°</div><div>20°</div><div>15°</div><div>20°</div><div><div><div></div><div></div></div></div></div>          |          |   |   |   |   |   |   |       |       |       |       |       |       |       |       |       |       |       |       |
| ft                                                                                                                                                                                                                                                                                                                  | 1,000 lb |   |   |   |   |   |   |       |       |       |       |       |       |       |       |       | ft    |       |       |
| 49.2                                                                                                                                                                                                                                                                                                                | -        | - | - | - | - | - | - | 262.4 | 299.8 | -     | 335.1 | -     | 284.4 | 388.0 | -     | 392.4 | -     | 49.2  |       |
| 52.5                                                                                                                                                                                                                                                                                                                | -        | - | - | - | - | - | - | 246.9 | 297.6 | 271.2 | 335.1 | 257.9 | 266.8 | 388.0 | 288.8 | 392.4 | 288.8 | 52.5  |       |
| 59.1                                                                                                                                                                                                                                                                                                                | -        | - | - | - | - | - | - | 219.4 | 291.0 | 266.8 | 321.9 | 249.1 | 235.9 | 377.0 | 277.8 | 377.0 | 277.8 | 59.1  |       |
| 65.6                                                                                                                                                                                                                                                                                                                | -        | - | - | - | - | - | - | 196.2 | 286.6 | 262.4 | 306.4 | 238.1 | 211.6 | 361.6 | 269.0 | 361.6 | 269.0 | 65.6  |       |
| 72.2                                                                                                                                                                                                                                                                                                                | -        | - | - | - | - | - | - | 176.9 | 281.1 | 253.5 | 294.3 | 231.5 | 191.3 | 347.2 | 260.1 | 347.2 | 260.1 | 72.2  |       |
| 78.7                                                                                                                                                                                                                                                                                                                | -        | - | - | - | - | - | - | 157.6 | 275.6 | 244.7 | 282.2 | 222.7 | 170.9 | 332.9 | 251.3 | 332.9 | 251.3 | 78.7  |       |
| 85.3                                                                                                                                                                                                                                                                                                                | -        | - | - | - | - | - | - | 143.9 | 269.0 | 238.1 | 271.2 | 216.1 | 156.0 | 319.7 | 242.5 | 319.7 | 242.5 | 85.3  |       |
| 91.9                                                                                                                                                                                                                                                                                                                | -        | - | - | - | - | - | - | 130.1 | 262.4 | 231.5 | 260.1 | 209.4 | 141.1 | 306.4 | 235.9 | 306.4 | 235.9 | 91.9  |       |
| 98.4                                                                                                                                                                                                                                                                                                                | -        | - | - | - | - | - | - | 118.9 | 256.8 | 222.7 | 251.3 | 202.8 | 129.0 | 296.5 | 229.3 | 296.5 | 229.3 | 98.4  |       |
| 111.5                                                                                                                                                                                                                                                                                                               | -        | - | - | - | - | - | - | 98.8  | 245.8 | 211.6 | 234.8 | 191.8 | 107.5 | 276.7 | 217.5 | 276.7 | 217.5 | 111.5 |       |
| 124.7                                                                                                                                                                                                                                                                                                               | -        | - | - | - | - | - | - | 82.7  | 233.7 | 201.4 | 220.5 | 181.5 | 90.5  | 259.4 | 206.5 | 259.4 | 206.5 | 124.7 |       |
| 137.8                                                                                                                                                                                                                                                                                                               | -        | - | - | - | - | - | - | 68.6  | 220.5 | 191.8 | 207.2 | 172.0 | 75.4  | 244.7 | 196.2 | 244.7 | 196.2 | 137.8 |       |
| 150.9                                                                                                                                                                                                                                                                                                               | -        | - | - | - | - | - | - | 57.5  | 208.7 | 183.0 | 196.2 | 163.9 | 63.2  | 231.5 | 187.4 | 231.5 | 187.4 | 150.9 |       |
| 164.0                                                                                                                                                                                                                                                                                                               | -        | - | - | - | - | - | - | 46.9  | 196.6 | 174.5 | 185.9 | 156.5 | 51.6  | 219.7 | 179.3 | 219.7 | 179.3 | 164.0 |       |
| 177.2                                                                                                                                                                                                                                                                                                               | -        | - | - | - | - | - | - | 36.6  | 184.1 | 166.4 | 176.4 | 149.9 | 40.6  | 209.4 | 172.0 | 209.4 | 172.0 | 177.2 |       |
| 190.3                                                                                                                                                                                                                                                                                                               | -        | - | - | - | - | - | - | 28.4  | 176.7 | 159.8 | 168.3 | 144.0 | 31.9  | 199.9 | 166.1 | 199.9 | 166.1 | 190.3 |       |
| 203.4                                                                                                                                                                                                                                                                                                               | -        | - | - | - | - | - | - | 21.0  | 169.4 | 153.6 | 160.9 | 138.5 | 24.1  | 191.1 | 160.2 | 191.1 | 160.2 | 203.4 |       |
| 216.5                                                                                                                                                                                                                                                                                                               | -        | - | - | - | - | - | - | 14.6  | 162.0 | 147.7 | 154.3 | 133.4 | 17.2  | 183.0 | 154.3 | 183.0 | 154.3 | 216.5 |       |
| 229.7                                                                                                                                                                                                                                                                                                               | -        | - | - | - | - | - | - | 9.3   | 155.9 | 143.3 | 148.4 | 129.0 | 11.5  | 176.8 | 149.9 | 176.8 | 149.9 | 229.7 |       |
| 232.9                                                                                                                                                                                                                                                                                                               | -        | - | - | - | - | - | - | 7.9   | 154.3 | 142.2 | 147.0 | 127.9 | 10.0  | 175.3 | 148.8 | 175.3 | 148.8 | 232.9 |       |
| 236.2                                                                                                                                                                                                                                                                                                               | -        | - | - | - | - | - | - | -     | 153.2 | 141.1 | 145.5 | 126.8 | 8.6   | 173.1 | 147.7 | 173.1 | 147.7 | 236.2 |       |
| 242.8                                                                                                                                                                                                                                                                                                               | -        | - | - | - | - | - | - | -     | 150.3 | 139.3 | 142.9 | 124.9 | -     | 170.1 | 145.5 | 170.1 | 145.5 | 242.8 |       |
| 255.9                                                                                                                                                                                                                                                                                                               | -        | - | - | - | - | - | - | -     | 144.4 | 135.6 | 137.8 | 121.3 | -     | 164.2 | 141.1 | 164.2 | 141.1 | 255.9 |       |
| 269.0                                                                                                                                                                                                                                                                                                               | -        | - | - | - | - | - | - | -     | 139.3 | 130.8 | 133.4 | 118.3 | -     | 159.1 | 137.4 | 159.1 | 137.4 | 269.0 |       |
| 282.2                                                                                                                                                                                                                                                                                                               | -        | - | - | - | - | - | - | -     | 134.8 | 127.5 | 129.7 | 115.4 | -     | 154.3 | 134.5 | 154.3 | 134.5 | 282.2 |       |
| 295.3                                                                                                                                                                                                                                                                                                               | -        | - | - | - | - | - | - | -     | 131.2 | 124.6 | 126.8 | 112.4 | -     | 149.9 | 132.3 | 149.9 | 132.3 | 295.3 |       |
| 308.4                                                                                                                                                                                                                                                                                                               | -        | - | - | - | - | - | - | -     | 127.5 | 122.4 | 123.1 | 111.0 | -     | 141.8 | 129.3 | 141.1 | 129.3 | 308.4 |       |
| 321.5                                                                                                                                                                                                                                                                                                               | -        | - | - | - | - | - | - | -     | 122.0 | 119.6 | 117.4 | 109.4 | -     | 133.7 | 127.0 | 132.6 | 127.0 | 321.5 |       |
| 331.4                                                                                                                                                                                                                                                                                                               | -        | - | - | - | - | - | - | -     | 116.5 | 105.6 | 111.7 | 108.2 | -     | 127.7 | 125.7 | 126.6 | 125.7 | 331.4 |       |
| 334.6                                                                                                                                                                                                                                                                                                               | -        | - | - | - | - | - | - | -     | 114.6 | -     | 109.8 | -     | -     | 125.7 | -     | 124.6 | -     | 122.0 | 334.6 |
| 341.2                                                                                                                                                                                                                                                                                                               | -        | - | - | - | - | - | - | -     | 111.3 | -     | 106.3 | -     | -     | 122.4 | -     | 121.3 | -     | 117.9 | 341.2 |

 0 lb   143,300 lb   209,500 lb   275,600 lb   363,800 lb   452,000 lb   584,300 lb   716,600 lb

LSL+LF\_2 – LSL+LF\_6:  36.1 ft – 62.3 ft

LSL+LF\_8 – LSL+LF\_10:  36.1 ft – 68.9 ft

LSL+LF\_14:  42.7 ft – 68.9 ft

LSL+LF\_14:  496,100 lb +  110,200 lb

|  363,800 lb +  110,200 lb |       |  36.1-68.9 ft |          |  27.6 ft |       |  32.2 ft/s |       | 360°     |       | ASME B30.5 |       |             |       |           |       |       |       |       |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------|-------|----------|-------|------------|-------|-------------|-------|-----------|-------|-------|-------|-------|-------|
| 354.3 ft                                                                                                                                                                                    |       |                                                                                                |          |                                                                                           |       |                                                                                               |       |          |       |            |       |             |       |           |       |       |       |       |       |
| LSL+LF_2                                                                                                                                                                                    |       |                                                                                                | LSL+LF_3 |                                                                                           |       | LSL+LF_4                                                                                      |       | LSL+LF_6 |       | LSL+LF_8   |       | LSL+LF_10   |       | LSL+LF_14 |       |       |       |       |       |
| 39.4 ft                                                                                                                                                                                     |       |                                                                                                |          |                                                                                           |       |                                                                                               |       |          |       |            |       |             |       |           |       |       |       |       |       |
| 0 lb                                                                                                                                                                                        |       | 0-716.6 klb                                                                                    |          | 0 lb                                                                                      |       | 0-716.6 klb                                                                                   |       |          |       | 0 lb       |       | 0-716.6 klb |       |           |       |       |       |       |       |
| 15°                                                                                                                                                                                         |       | 20°                                                                                            |          | 30°                                                                                       |       | 15°                                                                                           |       | 20°      |       | 15°        |       | 20°         |       | 15°       |       | 20°   |       |       |       |
| ft                                                                                                                                                                                          |       | 1,000 lb                                                                                       |          |                                                                                           |       |                                                                                               |       |          |       |            |       |             |       |           |       |       |       | ft    |       |
| 49.2                                                                                                                                                                                        | 264.6 | 304.2                                                                                          | -        | -                                                                                         | -     | -                                                                                             | -     | 310.9    | -     | 328.5      | -     | 277.8       | 377.0 | -         | 390.2 | -     | 392.4 | -     | 49.2  |
| 52.5                                                                                                                                                                                        | 249.1 | 304.2                                                                                          | 282.2    | -                                                                                         | 244.7 | 304.2                                                                                         | 257.9 | 308.6    | 266.8 | 326.3      | 260.1 | 262.4       | 377.0 | -         | 390.2 | -     | 392.4 | -     | 52.5  |
| 55.8                                                                                                                                                                                        | 234.8 | 304.2                                                                                          | 280.0    | -                                                                                         | 231.5 | 303.1                                                                                         | 256.8 | 307.5    | 265.7 | 325.2      | 254.6 | 246.9       | 375.9 | 284.4     | 385.8 | 284.4 | 384.7 | 277.8 | 55.8  |
| 59.1                                                                                                                                                                                        | 220.5 | 304.2                                                                                          | 277.8    | 178.6                                                                                     | 218.3 | 302.0                                                                                         | 255.7 | 306.4    | 264.6 | 324.1      | 249.1 | 231.5       | 374.8 | 280.0     | 381.4 | 280.0 | 377.0 | 273.4 | 59.1  |
| 65.6                                                                                                                                                                                        | 198.4 | 302.0                                                                                          | 269.0    | 173.1                                                                                     | 195.1 | 299.8                                                                                         | 251.3 | 304.2    | 260.1 | 308.6      | 240.3 | 207.2       | 363.8 | 271.2     | 363.8 | 271.2 | 359.4 | 264.6 | 65.6  |
| 72.2                                                                                                                                                                                        | 178.6 | 302.0                                                                                          | 260.1    | 168.7                                                                                     | 176.4 | 295.4                                                                                         | 244.7 | 299.8    | 253.5 | 296.5      | 231.5 | 187.4       | 349.4 | 262.4     | 349.4 | 262.4 | 343.9 | 255.7 | 72.2  |
| 78.7                                                                                                                                                                                        | 160.9 | 299.8                                                                                          | 251.3    | 165.3                                                                                     | 157.6 | 291.0                                                                                         | 238.1 | 295.4    | 246.9 | 284.4      | 224.9 | 167.6       | 335.1 | 253.5     | 335.1 | 253.5 | 330.7 | 246.9 | 78.7  |
| 85.3                                                                                                                                                                                        | 145.5 | 297.6                                                                                          | 242.5    | 160.9                                                                                     | 143.9 | 284.4                                                                                         | 231.5 | 287.7    | 240.3 | 273.4      | 217.2 | 152.7       | 323.0 | 244.7     | 323.0 | 244.7 | 317.5 | 239.2 | 85.3  |
| 91.9                                                                                                                                                                                        | 132.3 | 293.2                                                                                          | 235.9    | 157.6                                                                                     | 130.1 | 277.8                                                                                         | 224.9 | 280.0    | 233.7 | 262.4      | 210.5 | 137.8       | 310.9 | 238.1     | 310.9 | 238.1 | 304.2 | 231.5 | 91.9  |
| 98.4                                                                                                                                                                                        | 120.2 | 286.6                                                                                          | 227.1    | 153.2                                                                                     | 119.0 | 272.3                                                                                         | 219.4 | 273.4    | 227.1 | 253.5      | 205.0 | 126.2       | 299.8 | 231.5     | 299.8 | 231.5 | 293.2 | 224.9 | 98.4  |
| 111.5                                                                                                                                                                                       | 101.6 | 267.5                                                                                          | 215.3    | 147.3                                                                                     | 99.1  | 260.1                                                                                         | 207.6 | 260.1    | 215.3 | 237.0      | 193.3 | 105.1       | 280.0 | 219.7     | 280.0 | 219.7 | 273.4 | 212.7 | 111.5 |
| 124.7                                                                                                                                                                                       | 85.2  | 250.6                                                                                          | 204.3    | 141.5                                                                                     | 83.1  | 246.9                                                                                         | 196.9 | 247.7    | 204.3 | 222.7      | 182.6 | 88.0        | 263.1 | 208.7     | 263.1 | 208.7 | 256.8 | 201.7 | 124.7 |
| 137.8                                                                                                                                                                                       | 71.0  | 235.9                                                                                          | 194.0    | 135.6                                                                                     | 69.0  | 233.7                                                                                         | 187.4 | 235.9    | 194.0 | 209.4      | 173.1 | 73.0        | 246.9 | 198.4     | 246.9 | 198.4 | 241.8 | 191.8 | 137.8 |
| 150.9                                                                                                                                                                                       | 60.0  | 223.4                                                                                          | 185.2    | 131.2                                                                                     | 58.0  | 221.9                                                                                         | 179.3 | 223.4    | 185.2 | 198.4      | 165.7 | 61.2        | 233.7 | 189.6     | 233.7 | 189.6 | 227.1 | 183.0 | 150.9 |
| 164.0                                                                                                                                                                                       | 49.2  | 212.0                                                                                          | 176.7    | 127.1                                                                                     | 47.3  | 209.8                                                                                         | 172.0 | 210.5    | 176.7 | 188.1      | 158.4 | 49.9        | 221.9 | 181.5     | 221.9 | 181.5 | 216.1 | 174.9 | 164.0 |
| 177.2                                                                                                                                                                                       | 38.8  | 201.7                                                                                          | 168.7    | 123.5                                                                                     | 37.0  | 197.3                                                                                         | 165.3 | 197.3    | 168.7 | 178.6      | 151.0 | 39.0        | 211.6 | 174.2     | 211.6 | 174.2 | 205.8 | 167.6 | 177.2 |
| 190.3                                                                                                                                                                                       | 30.6  | 192.2                                                                                          | 162.8    | 119.8                                                                                     | 29.0  | 188.5                                                                                         | 158.7 | 189.2    | 162.0 | 170.5      | 145.1 | 30.4        | 202.8 | 167.6     | 202.8 | 167.6 | 196.2 | 160.9 | 190.3 |
| 203.4                                                                                                                                                                                       | 23.1  | 183.7                                                                                          | 156.9    | 116.5                                                                                     | 21.6  | 180.4                                                                                         | 152.9 | 181.1    | 155.8 | 163.5      | 140.0 | 22.6        | 194.4 | 161.7     | 194.4 | 161.7 | 187.4 | 155.8 | 203.4 |
| 216.5                                                                                                                                                                                       | 16.5  | 176.4                                                                                          | 151.0    | 113.5                                                                                     | 15.0  | 173.1                                                                                         | 147.7 | 173.1    | 149.9 | 156.5      | 135.6 | 15.7        | 186.3 | 156.5     | 186.3 | 156.5 | 179.7 | 150.6 | 216.5 |
| 229.7                                                                                                                                                                                       | 11.1  | 169.8                                                                                          | 145.9    | 111.0                                                                                     | 9.7   | 166.9                                                                                         | 142.6 | 166.8    | 145.5 | 150.6      | 131.2 | 9.8         | 179.2 | 151.4     | 178.9 | 151.2 | 173.1 | 145.5 | 229.7 |
| 232.9                                                                                                                                                                                       | 9.7   | 168.1                                                                                          | 144.6    | 110.4                                                                                     | 8.4   | 165.3                                                                                         | 141.3 | 165.0    | 144.4 | 149.2      | 130.1 | 8.4         | 177.5 | 150.1     | 177.1 | 149.9 | 171.4 | 144.4 | 232.9 |
| 236.2                                                                                                                                                                                       | 8.4   | 166.4                                                                                          | 143.3    | 109.8                                                                                     | -     | 163.1                                                                                         | 140.0 | 163.1    | 143.3 | 147.7      | 129.0 | -           | 175.3 | 148.8     | 175.3 | 148.8 | 169.8 | 143.3 | 236.2 |
| 242.8                                                                                                                                                                                       | -     | 163.5                                                                                          | 141.5    | 108.7                                                                                     | -     | 160.2                                                                                         | 138.2 | 160.2    | 141.5 | 145.1      | 127.1 | -           | 172.3 | 147.0     | 172.3 | 147.0 | 166.4 | 141.1 | 242.8 |
| 255.9                                                                                                                                                                                       | -     | 157.6                                                                                          | 137.8    | 106.5                                                                                     | -     | 154.3                                                                                         | 134.5 | 154.3    | 137.8 | 140.0      | 123.5 | -           | 166.4 | 143.3     | 166.4 | 143.3 | 160.6 | 137.1 | 255.9 |
| 269.0                                                                                                                                                                                       | -     | 152.5                                                                                          | 134.1    | 104.7                                                                                     | -     | 149.2                                                                                         | 129.7 | 149.2    | 134.1 | 135.6      | 119.8 | -           | 161.3 | 139.6     | 161.3 | 139.6 | 155.4 | 133.4 | 269.0 |
| 282.2                                                                                                                                                                                       | -     | 146.6                                                                                          | 130.8    | 103.1                                                                                     | -     | 144.0                                                                                         | 126.4 | 143.3    | 130.4 | 131.5      | 116.5 | -           | 156.2 | 136.3     | 155.8 | 136.3 | 151.0 | 130.4 | 282.2 |
| 295.3                                                                                                                                                                                       | -     | 140.0                                                                                          | 127.9    | 101.6                                                                                     | -     | 138.9                                                                                         | 123.5 | 136.7    | 126.8 | 127.9      | 113.5 | -           | 151.0 | 133.4     | 149.9 | 133.4 | 145.1 | 127.5 | 295.3 |
| 298.6                                                                                                                                                                                       | -     | 137.8                                                                                          | 127.1    | 101.4                                                                                     | -     | 136.7                                                                                         | 122.9 | 134.7    | 126.2 | 126.8      | 113.5 | -           | 148.6 | 132.6     | 147.5 | 132.6 | 143.3 | 126.8 | 298.6 |
| 308.4                                                                                                                                                                                       | -     | 131.2                                                                                          | 124.9    | -                                                                                         | -     | 130.1                                                                                         | 121.3 | 128.6    | 124.6 | 123.5      | 111.8 | -           | 141.5 | 130.4     | 140.4 | 130.4 | 137.8 | 124.6 | 308.4 |
| 321.5                                                                                                                                                                                       | -     | 123.1                                                                                          | 120.9    | -                                                                                         | -     | 122.0                                                                                         | 118.3 | 120.6    | 119.9 | 115.3      | 109.5 | -           | 132.6 | 127.5     | 131.5 | 127.1 | 129.0 | 122.4 | 321.5 |
| 334.6                                                                                                                                                                                       | -     | 115.7                                                                                          | 115.7    | -                                                                                         | -     | 114.6                                                                                         | 114.6 | 112.4    | 112.4 | 107.8      | 108.0 | -           | 124.6 | 124.6     | 123.5 | 123.5 | 120.2 | 121.3 | 334.6 |
| 337.9                                                                                                                                                                                       | -     | 114.2                                                                                          | 114.6    | -                                                                                         | -     | 113.0                                                                                         | 113.5 | 110.9    | 111.3 | 106.0      | 106.3 | -           | 122.4 | 122.4     | 121.3 | 121.3 | 117.9 | 119.0 | 337.9 |
| 341.2                                                                                                                                                                                       | -     | 112.7                                                                                          | 78.3     | -                                                                                         | -     | 111.3                                                                                         | -     | 109.3    | 61.9  | 104.3      | -     | -           | 120.2 | -         | 119.6 | -     | 115.7 | -     | 341.2 |
| 347.8                                                                                                                                                                                       | -     | 109.6                                                                                          | -        | -                                                                                         | -     | 108.4                                                                                         | -     | 106.3    | -     | 100.8      | -     | -           | 117.2 | -         | 116.3 | -     | 111.3 | -     | 347.8 |
| 351.1                                                                                                                                                                                       | -     | 107.8                                                                                          | -        | -                                                                                         | -     | 106.9                                                                                         | -     | 104.7    | -     | 99.0       | -     | -           | 115.7 | -         | 114.6 | -     | 110.0 | -     | 351.1 |

 0 lb   143,300 lb   209,500 lb   275,600 lb   363,800 lb   452,000 lb   584,300 lb   716,600 lb

LSL+LF\_2 – LSL+LF\_6:  36.1 ft – 62.3 ft

LSL+LF\_8 – LSL+LF\_10:  36.1 ft – 68.9 ft

LSL+LF\_14:  42.7 ft – 68.9 ft

LSL+LF\_14:  496,100 lb +  110,200 lb

| <div> <div>363,800 lb + 110,200 lb</div> <div>36.1-68.9 ft</div> <div>27.6 ft</div> <div>32.2 ft/s</div> <div>360°</div> <div>ASME B30.5</div> </div> |          |   |   |   |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 364.2 ft                                                                                                                                              |          |   |   |   |       |       |       |       |       |       |       |       |       |       |       |       |
| 39.4 ft                                                                                                                                               |          |   |   |   |       |       |       |       |       |       |       |       |       |       |       |       |
| 0 lb 0-716.6 klb 0 lb 0-716.6 klb 0 lb 0-716.6 klb                                                                                                    |          |   |   |   |       |       |       |       |       |       |       |       |       |       |       |       |
| 15° 20° 30° 15° 20° 15° 20° 15° 20° 15° 20° 15° 20° 15° 20°                                                                                           |          |   |   |   |       |       |       |       |       |       |       |       |       |       |       |       |
| ft                                                                                                                                                    | 1,000 lb |   |   |   |       |       |       |       |       |       |       |       |       |       |       | ft    |
| 52.5                                                                                                                                                  | -        | - | - | - | -     | -     | 288.8 | -     | 321.9 | -     | 255.7 | 366.0 | -     | 379.2 | -     | 52.5  |
| 55.8                                                                                                                                                  | -        | - | - | - | 224.9 | 297.6 | 253.5 | 287.7 | 262.4 | 321.9 | 255.7 | 241.4 | 366.0 | 286.6 | 379.2 | 55.8  |
| 59.1                                                                                                                                                  | -        | - | - | - | 212.7 | 297.6 | 253.5 | 286.6 | 260.1 | 321.9 | 251.3 | 227.1 | 366.0 | 280.0 | 379.2 | 59.1  |
| 65.6                                                                                                                                                  | -        | - | - | - | 189.6 | 295.4 | 249.1 | 284.4 | 260.1 | 310.9 | 242.5 | 202.8 | 363.8 | 271.2 | 366.0 | 65.6  |
| 72.2                                                                                                                                                  | -        | - | - | - | 171.4 | 293.2 | 246.9 | 281.1 | 253.5 | 298.7 | 233.7 | 183.0 | 350.5 | 262.4 | 351.6 | 72.2  |
| 78.7                                                                                                                                                  | -        | - | - | - | 153.2 | 291.0 | 240.3 | 277.8 | 246.9 | 286.6 | 224.9 | 163.1 | 337.3 | 253.5 | 337.3 | 78.7  |
| 85.3                                                                                                                                                  | -        | - | - | - | 139.4 | 285.5 | 233.7 | 272.3 | 242.5 | 275.6 | 219.4 | 148.3 | 325.2 | 246.9 | 325.2 | 85.3  |
| 91.9                                                                                                                                                  | -        | - | - | - | 125.7 | 280.0 | 227.1 | 266.8 | 235.9 | 264.6 | 212.7 | 133.4 | 313.1 | 240.3 | 313.1 | 91.9  |
| 98.4                                                                                                                                                  | -        | - | - | - | 115.0 | 273.4 | 220.5 | 260.1 | 229.3 | 255.7 | 206.1 | 121.8 | 303.1 | 233.7 | 303.1 | 98.4  |
| 111.5                                                                                                                                                 | -        | - | - | - | 95.5  | 261.2 | 210.2 | 250.2 | 216.8 | 239.2 | 195.1 | 101.1 | 283.3 | 221.2 | 283.3 | 111.5 |
| 124.7                                                                                                                                                 | -        | - | - | - | 79.7  | 249.9 | 199.9 | 238.8 | 205.8 | 224.9 | 184.8 | 84.4  | 266.0 | 210.2 | 266.0 | 124.7 |
| 137.8                                                                                                                                                 | -        | - | - | - | 65.7  | 238.1 | 189.6 | 227.1 | 196.2 | 211.6 | 175.3 | 69.4  | 251.3 | 200.6 | 251.3 | 137.8 |
| 150.9                                                                                                                                                 | -        | - | - | - | 54.8  | 226.3 | 181.5 | 215.3 | 187.4 | 200.6 | 167.2 | 57.8  | 238.1 | 191.8 | 238.1 | 150.9 |
| 164.0                                                                                                                                                 | -        | - | - | - | 44.5  | 214.6 | 174.2 | 203.9 | 179.3 | 190.3 | 159.8 | 46.9  | 226.0 | 183.7 | 226.0 | 164.0 |
| 177.2                                                                                                                                                 | -        | - | - | - | 34.6  | 202.8 | 167.6 | 192.9 | 172.0 | 180.8 | 153.2 | 36.6  | 215.0 | 176.4 | 215.0 | 177.2 |
| 190.3                                                                                                                                                 | -        | - | - | - | 26.5  | 192.5 | 160.9 | 183.0 | 164.6 | 172.7 | 147.3 | 27.8  | 205.4 | 169.8 | 205.4 | 190.3 |
| 203.4                                                                                                                                                 | -        | - | - | - | 19.2  | 183.7 | 155.1 | 174.9 | 158.0 | 165.7 | 142.2 | 19.9  | 196.6 | 163.5 | 196.6 | 203.4 |
| 216.5                                                                                                                                                 | -        | - | - | - | 12.6  | 176.4 | 149.9 | 167.6 | 152.1 | 158.7 | 136.7 | 13.0  | 188.5 | 157.6 | 188.5 | 216.5 |
| 226.4                                                                                                                                                 | -        | - | - | - | 8.4   | 172.0 | 146.2 | 163.4 | 148.5 | 154.3 | 133.4 | 8.6   | 183.5 | 154.3 | 183.9 | 226.4 |
| 229.7                                                                                                                                                 | -        | - | - | - | -     | 170.1 | 144.8 | 161.8 | 147.2 | 152.9 | 132.3 | -     | 181.9 | 153.2 | 182.1 | 229.7 |
| 242.8                                                                                                                                                 | -        | - | - | - | -     | 163.5 | 140.0 | 155.8 | 142.6 | 147.3 | 128.2 | -     | 175.3 | 148.8 | 175.3 | 242.8 |
| 255.9                                                                                                                                                 | -        | - | - | - | -     | 157.6 | 135.6 | 149.9 | 138.9 | 142.2 | 124.6 | -     | 168.7 | 144.4 | 168.7 | 255.9 |
| 269.0                                                                                                                                                 | -        | - | - | - | -     | 152.5 | 131.9 | 144.8 | 135.2 | 137.8 | 120.9 | -     | 163.5 | 140.7 | 163.5 | 269.0 |
| 282.2                                                                                                                                                 | -        | - | - | - | -     | 145.5 | 128.6 | 140.0 | 131.5 | 133.7 | 117.9 | -     | 156.9 | 137.4 | 156.5 | 282.2 |
| 295.3                                                                                                                                                 | -        | - | - | - | -     | 136.7 | 125.7 | 135.6 | 127.9 | 130.1 | 115.7 | -     | 148.8 | 134.5 | 147.7 | 295.3 |
| 308.4                                                                                                                                                 | -        | - | - | - | -     | 127.9 | 122.7 | 126.8 | 124.2 | 121.3 | 112.4 | -     | 139.3 | 131.5 | 138.2 | 308.4 |
| 321.5                                                                                                                                                 | -        | - | - | - | -     | 119.6 | 118.6 | 117.9 | 117.9 | 113.0 | 109.4 | -     | 130.1 | 127.9 | 129.0 | 321.5 |
| 334.6                                                                                                                                                 | -        | - | - | - | -     | 112.4 | 112.4 | 110.2 | 111.3 | 105.4 | 105.6 | -     | 122.4 | 122.4 | 121.3 | 334.6 |
| 347.8                                                                                                                                                 | -        | - | - | - | -     | 106.0 | 106.3 | 103.8 | 104.3 | 98.2  | 98.1  | -     | 115.0 | 114.6 | 113.8 | 347.8 |
| 357.6                                                                                                                                                 | -        | - | - | - | -     | 101.0 | -     | 99.0  | -     | 93.0  | -     | -     | 109.8 | -     | 108.2 | 357.6 |

0 lb    143,300 lb    209,500 lb    275,600 lb    363,800 lb    452,000 lb    584,300 lb    716,600 lb

LSL+LF\_2 – LSL+LF\_6: 36.1 ft – 62.3 ft

LSL+LF\_8 – LSL+LF\_10: 36.1 ft – 68.9 ft

LSL+LF\_14: 42.7 ft – 68.9 ft

LSL+LF\_14: 496,100 lb + 110,200 lb

| 363,800 lb + 110,200 lb |       |             |       |          |       |       |       |             |       |       |       |          |       |       |       |          |       |             |       | 36.1-68.9 ft |       |     |  | 27.6 ft   |  |     |  | 32.2 ft/s |  |  |  | 360° |  | ASME B30.5 |  |  |  |  |  |
|-------------------------|-------|-------------|-------|----------|-------|-------|-------|-------------|-------|-------|-------|----------|-------|-------|-------|----------|-------|-------------|-------|--------------|-------|-----|--|-----------|--|-----|--|-----------|--|--|--|------|--|------------|--|--|--|--|--|
| 374.0 ft                |       |             |       |          |       |       |       |             |       |       |       |          |       |       |       |          |       |             |       |              |       |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| LSL+LF_2                |       |             |       | LSL+LF_3 |       |       |       | LSL+LF_4    |       |       |       | LSL+LF_6 |       |       |       | LSL+LF_8 |       |             |       | LSL+LF_10    |       |     |  | LSL+LF_12 |  |     |  | LSL+LF_14 |  |  |  |      |  |            |  |  |  |  |  |
| 39.4 ft                 |       |             |       |          |       |       |       |             |       |       |       |          |       |       |       |          |       |             |       |              |       |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 0 lb                    |       | 0-716.6 klb |       |          |       | 0 lb  |       | 0-716.6 klb |       |       |       |          |       |       |       | 0 lb     |       | 0-716.6 klb |       |              |       |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 15°                     |       | 20°         |       | 30°      |       | 15°   |       | 20°         |       | 15°   |       | 20°      |       | 15°   |       | 20°      |       | 15°         |       | 20°          |       | 15° |  | 20°       |  | 15° |  | 20°       |  |  |  |      |  |            |  |  |  |  |  |
| ft                      |       | 1,000 lb    |       |          |       |       |       |             |       |       |       |          |       |       |       |          |       |             |       |              |       | ft  |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 52.5                    | 238.1 | 282.2       | -     | -        | -     | -     | -     | 293.2       | -     | 319.7 | -     | 251.3    | 352.7 | -     | 363.8 | -        | 374.8 | -           | 392.4 | -            | 52.5  |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 55.8                    | 225.4 | 282.2       | 264.6 | -        | 220.5 | 288.8 | 249.1 | 292.1       | 253.5 | 319.7 | 255.7 | 237.0    | 352.7 | 286.6 | 363.8 | 286.6    | 374.8 | 286.6       | 386.9 | 282.2        | 55.8  |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 59.1                    | 212.7 | 282.2       | 264.6 | -        | 209.4 | 288.8 | 249.1 | 291.0       | 253.5 | 319.7 | 251.3 | 222.7    | 352.7 | 282.2 | 363.8 | 282.2    | 374.8 | 282.2       | 381.4 | 275.6        | 59.1  |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 62.3                    | 201.2 | 282.2       | 264.6 | 176.4    | 197.9 | 288.8 | 248.0 | 291.0       | 252.4 | 316.4 | 246.9 | 211.1    | 352.7 | 277.8 | 362.7 | 277.8    | 372.6 | 277.8       | 373.7 | 271.2        | 62.3  |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 65.6                    | 189.6 | 282.2       | 264.6 | 174.2    | 186.3 | 288.8 | 246.9 | 291.0       | 251.3 | 313.1 | 242.5 | 199.5    | 352.7 | 273.4 | 361.6 | 273.4    | 370.4 | 273.4       | 366.0 | 266.8        | 65.6  |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 72.2                    | 169.8 | 282.2       | 262.4 | 169.8    | 168.7 | 287.7 | 244.7 | 289.9       | 249.1 | 300.9 | 235.9 | 180.2    | 347.2 | 264.6 | 351.6 | 264.6    | 356.0 | 264.6       | 350.5 | 257.9        | 72.2  |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 78.7                    | 153.2 | 280.0       | 253.5 | 166.4    | 151.0 | 286.6 | 242.5 | 288.8       | 246.9 | 288.8 | 227.1 | 160.9    | 341.7 | 255.7 | 341.7 | 255.7    | 341.7 | 255.7       | 335.1 | 249.1        | 78.7  |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 85.3                    | 138.9 | 277.8       | 244.7 | 162.0    | 137.2 | 281.1 | 235.9 | 284.4       | 242.5 | 278.9 | 220.5 | 146.1    | 329.6 | 249.1 | 329.6 | 249.1    | 329.6 | 249.1       | 323.0 | 241.4        | 85.3  |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 91.9                    | 125.7 | 275.6       | 238.1 | 158.7    | 123.5 | 275.6 | 229.3 | 280.0       | 238.1 | 269.0 | 213.8 | 131.2    | 317.5 | 240.3 | 317.5 | 240.3    | 317.5 | 240.3       | 310.9 | 233.7        | 91.9  |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 98.4                    | 113.5 | 273.4       | 231.5 | 155.4    | 112.8 | 270.1 | 222.7 | 274.5       | 231.5 | 259.0 | 207.2 | 120.0    | 306.4 | 233.7 | 306.4 | 233.7    | 306.4 | 233.7       | 299.8 | 228.2        | 98.4  |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 111.5                   | 95.5  | 267.5       | 219.0 | 148.8    | 93.4  | 259.0 | 210.9 | 264.6       | 219.0 | 241.4 | 196.2 | 99.5     | 286.6 | 222.7 | 286.6 | 222.7    | 286.6 | 222.7       | 280.0 | 216.6        | 111.5 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 124.7                   | 79.4  | 257.2       | 207.6 | 142.9    | 77.7  | 247.7 | 199.9 | 254.3       | 208.0 | 227.4 | 186.3 | 82.8     | 269.7 | 212.0 | 269.7 | 212.0    | 269.7 | 212.0       | 262.4 | 205.6        | 124.7 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 137.8                   | 65.5  | 242.5       | 197.3 | 137.8    | 63.9  | 235.9 | 189.6 | 242.5       | 198.4 | 215.0 | 177.5 | 68.1     | 253.5 | 201.7 | 253.5 | 201.7    | 253.5 | 201.7       | 246.9 | 195.8        | 137.8 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 150.9                   | 54.6  | 229.3       | 188.5 | 133.4    | 53.1  | 223.4 | 180.8 | 230.0       | 189.6 | 203.2 | 169.4 | 56.7     | 240.3 | 192.9 | 240.3 | 192.9    | 240.3 | 192.9       | 233.7 | 186.3        | 150.9 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 164.0                   | 44.4  | 217.5       | 180.4 | 129.0    | 42.9  | 209.8 | 172.7 | 217.5       | 181.5 | 192.9 | 161.7 | 45.9     | 228.5 | 184.8 | 228.5 | 184.8    | 228.5 | 184.8       | 221.9 | 178.9        | 164.0 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 177.2                   | 34.8  | 207.2       | 173.1 | 124.6    | 33.5  | 195.1 | 165.3 | 207.2       | 174.2 | 184.1 | 154.3 | 35.7     | 218.3 | 177.5 | 218.3 | 177.5    | 218.3 | 177.5       | 211.3 | 172.0        | 177.2 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 190.3                   | 26.6  | 197.7       | 166.4 | 120.9    | 25.3  | 178.6 | 159.5 | 196.6       | 166.8 | 176.0 | 148.4 | 27.0     | 208.7 | 171.6 | 208.7 | 171.6    | 208.7 | 171.6       | 201.7 | 165.3        | 190.3 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 203.4                   | 19.2  | 188.9       | 160.2 | 117.6    | 17.9  | 169.0 | 152.9 | 188.5       | 160.2 | 168.0 | 143.3 | 19.2     | 198.0 | 165.7 | 199.9 | 165.7    | 199.9 | 165.7       | 192.9 | 159.5        | 203.4 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 216.5                   | 12.6  | 180.8       | 154.3 | 114.6    | 11.5  | 160.9 | 147.7 | 181.9       | 154.3 | 160.9 | 137.8 | 12.1     | 190.7 | 159.8 | 191.8 | 159.8    | 191.8 | 159.8       | 185.0 | 154.0        | 216.5 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 223.1                   | 9.6   | 177.8       | 152.1 | 113.5    | 8.6   | 156.1 | 145.5 | 178.1       | 152.1 | 158.0 | 135.6 | 9.2      | 186.3 | 157.6 | 187.8 | 157.6    | 188.1 | 157.4       | 181.4 | 151.4        | 223.1 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 226.4                   | 8.2   | 176.4       | 151.0 | 113.0    | -     | 154.5 | 144.4 | 176.6       | 151.0 | 156.5 | 134.5 | 7.7      | 184.4 | 156.3 | 186.1 | 156.3    | 186.3 | 156.1       | 179.7 | 150.1        | 226.4 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 229.7                   | -     | 174.5       | 149.5 | 112.4    | -     | 153.0 | 143.3 | 175.0       | 149.9 | 155.1 | 133.4 | -        | 182.4 | 154.9 | 184.3 | 154.9    | 184.5 | 154.8       | 177.5 | 148.8        | 229.7 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 242.8                   | -     | 167.9       | 144.4 | 110.2    | -     | 146.2 | 138.9 | 168.3       | 145.5 | 149.5 | 129.3 | -        | 175.6 | 149.9 | 177.8 | 149.9    | 177.8 | 149.9       | 170.9 | 144.4        | 242.8 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 255.9                   | -     | 162.0       | 140.0 | 108.0    | -     | 141.1 | 134.5 | 160.9       | 141.1 | 144.4 | 125.7 | -        | 169.8 | 145.5 | 172.0 | 145.5    | 172.0 | 145.5       | 165.0 | 140.4        | 255.9 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 269.0                   | -     | 155.4       | 136.3 | 106.1    | -     | 137.4 | 130.4 | 153.6       | 137.4 | 140.0 | 122.7 | -        | 162.4 | 141.8 | 166.1 | 141.8    | 164.6 | 141.8       | 159.8 | 136.7        | 269.0 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 282.2                   | -     | 147.0       | 133.0 | 104.4    | -     | 134.5 | 127.5 | 144.8       | 134.1 | 134.8 | 119.8 | -        | 155.1 | 138.5 | 157.6 | 138.5    | 155.4 | 138.5       | 153.2 | 133.0        | 282.2 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 295.3                   | -     | 136.7       | 130.1 | 102.7    | -     | 132.3 | 124.6 | 134.5       | 131.2 | 129.0 | 116.8 | -        | 147.7 | 135.6 | 146.6 | 135.6    | 144.4 | 135.6       | 144.8 | 129.7        | 295.3 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 308.4                   | -     | 127.9       | 125.7 | 101.5    | -     | 125.7 | 122.4 | 125.7       | 125.3 | 119.4 | 113.9 | -        | 138.2 | 132.6 | 137.1 | 132.6    | 135.6 | 132.6       | 134.5 | 126.8        | 308.4 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 315.0                   | -     | 123.5       | 123.5 | 87.5     | -     | 122.4 | 121.3 | 121.3       | 122.4 | 114.6 | 112.4 | -        | 133.4 | 131.2 | 132.3 | 131.2    | 131.2 | 131.2       | 129.3 | 126.0        | 315.0 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 321.5                   | -     | 119.6       | 119.6 | -        | -     | 118.7 | 118.3 | 117.3       | 117.9 | 110.9 | 109.3 | -        | 129.5 | 128.4 | 127.9 | 128.2    | 126.8 | 126.8       | 124.2 | 124.2        | 321.5 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 334.6                   | -     | 112.4       | 112.4 | -        | -     | 111.3 | 111.3 | 110.2       | 110.2 | 103.4 | 103.2 | -        | 121.3 | 121.3 | 120.2 | 120.2    | 117.9 | 117.9       | 114.9 | 117.0        | 334.6 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 347.8                   | -     | 105.5       | 105.7 | -        | -     | 104.7 | 104.9 | 103.3       | 103.5 | 96.3  | 95.6  | -        | 113.9 | 113.9 | 113.0 | 113.1    | 110.7 | 110.9       | 106.5 | 108.5        | 347.8 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 354.3                   | -     | 102.1       | 102.3 | -        | -     | 101.4 | 101.6 | 99.9        | 100.1 | 92.8  | 91.9  | -        | 110.2 | 110.2 | 109.3 | 109.6    | 107.1 | 107.4       | 102.7 | 104.7        | 354.3 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 357.6                   | -     | 100.5       | 89.5  | -        | -     | 99.8  | 66.4  | 98.3        | 66.4  | 91.2  | -     | -        | 108.6 | -     | 107.6 | -        | 105.4 | -           | 100.8 | -            | 357.6 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 360.9                   | -     | 98.9        | -     | -        | -     | 98.2  | -     | 96.8        | -     | 89.6  | -     | -        | 106.9 | -     | 105.9 | -        | 103.6 | -           | 99.0  | -            | 360.9 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |
| 367.5                   | -     | 95.7        | -     | -        | -     | 95.0  | -     | 93.7        | -     | 86.4  | -     | -        | 103.6 | -     | 102.5 | -        | 100.3 | -           | 95.5  | -            | 367.5 |     |  |           |  |     |  |           |  |  |  |      |  |            |  |  |  |  |  |



| 363,800 lb + 110,200 lb 36.1-68.9 ft 27.6 ft 32.2 ft/s 360° ASME B30.5 |   |             |   |          |       |             |       |          |       |             |       |           |       |           |       |       |       |       |       |       |       |
|------------------------------------------------------------------------|---|-------------|---|----------|-------|-------------|-------|----------|-------|-------------|-------|-----------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|
| 383.9 ft                                                               |   |             |   |          |       |             |       |          |       |             |       |           |       |           |       |       |       |       |       |       |       |
| LSL+LF_2                                                               |   | LSL+LF_3    |   | LSL+LF_4 |       | LSL+LF_6    |       | LSL+LF_8 |       | LSL+LF_10   |       | LSL+LF_12 |       | LSL+LF_14 |       |       |       |       |       |       |       |
| 39.4 ft                                                                |   |             |   |          |       |             |       |          |       |             |       |           |       |           |       |       |       |       |       |       |       |
| 0 lb                                                                   |   | 0-716.6 klb |   | 0 lb     |       | 0-716.6 klb |       | 0 lb     |       | 0-716.6 klb |       |           |       |           |       |       |       |       |       |       |       |
| 15°                                                                    |   | 20°         |   | 30°      |       | 15°         |       | 20°      |       | 15°         |       | 20°       |       | 15°       |       | 20°   |       |       |       |       |       |
| ft                                                                     |   | 1,000 lb    |   |          |       |             |       |          |       |             |       |           |       |           |       |       |       | ft    |       |       |       |
| 52.5                                                                   | - | -           | - | -        | -     | -           | -     | 284.4    | -     | 308.6       | -     | 244.7     | 341.7 | -         | 352.7 | -     | 363.8 | -     | 392.4 | -     | 52.5  |
| 55.8                                                                   | - | -           | - | -        | 216.1 | 280.0       | 244.7 | 284.4    | 251.3 | 308.6       | 257.9 | 231.5     | 341.7 | 288.8     | 352.7 | 288.8 | 363.8 | 288.8 | 388.0 | 282.2 | 55.8  |
| 59.1                                                                   | - | -           | - | -        | 203.9 | 280.0       | 244.7 | 284.4    | 251.3 | 308.6       | 253.5 | 218.3     | 341.7 | 284.4     | 352.7 | 284.4 | 363.8 | 284.4 | 383.6 | 277.8 | 59.1  |
| 65.6                                                                   | - | -           | - | -        | 181.9 | 280.0       | 244.7 | 284.4    | 249.1 | 308.6       | 244.7 | 194.0     | 341.7 | 273.4     | 350.5 | 273.4 | 363.8 | 273.4 | 368.2 | 269.0 | 65.6  |
| 72.2                                                                   | - | -           | - | -        | 164.2 | 280.0       | 242.5 | 284.4    | 249.1 | 299.8       | 235.9 | 175.3     | 340.6 | 264.6     | 347.2 | 264.6 | 353.8 | 264.6 | 352.7 | 260.1 | 72.2  |
| 78.7                                                                   | - | -           | - | -        | 146.6 | 280.0       | 242.5 | 284.4    | 246.9 | 291.0       | 229.3 | 156.5     | 339.5 | 257.9     | 343.9 | 257.9 | 343.9 | 257.9 | 339.5 | 251.3 | 78.7  |
| 85.3                                                                   | - | -           | - | -        | 132.8 | 276.7       | 238.1 | 281.1    | 244.7 | 281.1       | 220.5 | 142.2     | 329.6 | 249.1     | 331.8 | 249.1 | 331.8 | 249.1 | 326.3 | 243.6 | 85.3  |
| 91.9                                                                   | - | -           | - | -        | 119.0 | 273.4       | 231.5 | 277.8    | 238.1 | 271.2       | 215.0 | 127.9     | 319.7 | 242.5     | 319.7 | 242.5 | 319.7 | 242.5 | 313.1 | 235.9 | 91.9  |
| 98.4                                                                   | - | -           | - | -        | 108.8 | 270.1       | 224.9 | 273.4    | 233.7 | 261.2       | 209.4 | 116.5     | 308.6 | 235.9     | 308.6 | 235.9 | 308.6 | 235.9 | 303.1 | 229.3 | 98.4  |
| 111.5                                                                  | - | -           | - | -        | 89.8  | 262.4       | 213.8 | 265.7    | 221.9 | 243.6       | 198.4 | 95.9      | 288.8 | 224.9     | 288.8 | 224.9 | 288.8 | 224.9 | 283.3 | 217.7 | 111.5 |
| 124.7                                                                  | - | -           | - | -        | 74.3  | 252.1       | 203.2 | 256.5    | 210.9 | 229.6       | 188.1 | 79.3      | 271.9 | 214.2     | 271.9 | 214.2 | 271.9 | 214.2 | 265.7 | 207.2 | 124.7 |
| 137.8                                                                  | - | -           | - | -        | 60.6  | 240.3       | 192.9 | 244.7    | 200.6 | 217.2       | 178.6 | 64.6      | 255.7 | 203.9     | 255.7 | 203.9 | 255.7 | 203.9 | 250.6 | 197.3 | 137.8 |
| 150.9                                                                  | - | -           | - | -        | 49.9  | 228.5       | 184.1 | 233.0    | 192.5 | 206.1       | 170.5 | 53.3      | 242.5 | 195.1     | 242.5 | 195.1 | 242.5 | 195.1 | 235.9 | 188.5 | 150.9 |
| 164.0                                                                  | - | -           | - | -        | 40.1  | 212.7       | 175.6 | 221.9    | 184.5 | 195.8       | 163.1 | 42.8      | 230.8 | 187.0     | 230.8 | 187.0 | 230.8 | 187.0 | 224.9 | 180.4 | 164.0 |
| 177.2                                                                  | - | -           | - | -        | 31.1  | 201.7       | 167.6 | 211.6    | 176.4 | 186.3       | 156.5 | 33.3      | 220.5 | 179.7     | 220.5 | 179.7 | 220.5 | 179.7 | 214.2 | 173.1 | 177.2 |
| 190.3                                                                  | - | -           | - | -        | 22.9  | 190.6       | 161.7 | 200.3    | 169.8 | 178.2       | 150.6 | 24.6      | 210.9 | 173.1     | 210.9 | 173.1 | 210.9 | 173.1 | 203.9 | 166.4 | 190.3 |
| 203.4                                                                  | - | -           | - | -        | 15.5  | 175.5       | 155.1 | 191.8    | 163.4 | 170.5       | 145.3 | 16.8      | 202.1 | 167.1     | 202.2 | 167.1 | 202.2 | 167.1 | 195.1 | 160.6 | 203.4 |
| 216.5                                                                  | - | -           | - | -        | 9.0   | 168.7       | 149.9 | 185.2    | 157.6 | 163.1       | 140.0 | 9.7       | 194.0 | 160.9     | 194.0 | 160.9 | 194.0 | 160.9 | 187.0 | 154.9 | 216.5 |
| 219.8                                                                  | - | -           | - | -        | -     | 166.4       | 148.8 | 183.5    | 156.3 | 161.7       | 138.9 | 8.2       | 192.2 | 159.8     | 192.2 | 159.8 | 192.2 | 159.8 | 185.2 | 153.5 | 219.8 |
| 229.7                                                                  | - | -           | - | -        | -     | 160.2       | 144.8 | 178.6    | 152.5 | 157.3       | 135.6 | -         | 186.7 | 156.5     | 186.7 | 156.5 | 186.7 | 156.5 | 179.7 | 149.9 | 229.7 |
| 242.8                                                                  | - | -           | - | -        | -     | 155.1       | 140.4 | 172.0    | 147.7 | 151.4       | 131.2 | -         | 180.0 | 152.1     | 180.0 | 152.1 | 180.0 | 152.1 | 173.8 | 145.5 | 242.8 |
| 255.9                                                                  | - | -           | - | -        | -     | 149.9       | 136.7 | 165.3    | 143.3 | 145.5       | 126.8 | -         | 174.2 | 147.7     | 174.2 | 147.7 | 174.2 | 147.7 | 167.9 | 141.5 | 255.9 |
| 269.0                                                                  | - | -           | - | -        | -     | 145.5       | 133.0 | 153.6    | 139.6 | 141.1       | 123.8 | -         | 166.1 | 144.0     | 165.3 | 144.0 | 163.9 | 144.0 | 162.0 | 137.8 | 269.0 |
| 282.2                                                                  | - | -           | - | -        | -     | 140.0       | 129.3 | 142.6    | 136.3 | 135.0       | 120.7 | -         | 156.5 | 140.4     | 155.4 | 140.4 | 153.2 | 140.4 | 152.5 | 134.1 | 282.2 |
| 295.3                                                                  | - | -           | - | -        | -     | 133.4       | 125.7 | 132.3    | 133.4 | 126.8       | 117.9 | -         | 145.5 | 136.7     | 144.4 | 136.7 | 142.2 | 136.7 | 142.2 | 130.8 | 295.3 |
| 308.4                                                                  | - | -           | - | -        | -     | 124.6       | 122.7 | 123.5    | 124.6 | 117.2       | 114.3 | -         | 136.0 | 133.0     | 134.8 | 132.3 | 132.3 | 133.4 | 131.2 | 127.9 | 308.4 |
| 321.5                                                                  | - | -           | - | -        | -     | 116.6       | 117.4 | 116.2    | 116.3 | 108.6       | 108.3 | -         | 126.8 | 126.8     | 125.7 | 126.0 | 123.8 | 124.6 | 120.9 | 121.3 | 321.5 |
| 334.6                                                                  | - | -           | - | -        | -     | 109.3       | 109.6 | 108.2    | 108.7 | 100.8       | 99.9  | -         | 117.9 | 119.0     | 116.8 | 117.9 | 115.7 | 115.7 | 111.6 | 112.7 | 334.6 |
| 347.8                                                                  | - | -           | - | -        | -     | 102.3       | 102.5 | 99.6     | 101.5 | 93.7        | 92.2  | -         | 110.2 | 111.7     | 109.2 | 110.5 | 107.8 | 108.2 | 103.4 | 104.5 | 347.8 |
| 360.9                                                                  | - | -           | - | -        | -     | 95.5        | 95.8  | 90.3     | 94.7  | 86.9        | 85.2  | -         | 103.0 | 104.5     | 102.1 | 103.3 | 100.6 | 101.0 | 95.8  | 96.9  | 360.9 |
| 364.2                                                                  | - | -           | - | -        | -     | 93.9        | 94.1  | 87.9     | 93.0  | 85.2        | 83.6  | -         | 101.3 | 102.7     | 100.5 | 101.6 | 99.0  | 99.2  | 93.8  | 95.0  | 364.2 |
| 374.0                                                                  | - | -           | - | -        | -     | 89.3        | -     | 80.5     | -     | 80.2        | -     | -         | 96.8  | -         | 96.1  | -     | 94.1  | -     | 88.6  | -     | 374.0 |
| 377.3                                                                  | - | -           | - | -        | -     | 88.0        | -     | 78.0     | -     | 78.7        | -     | -         | 95.5  | -         | 94.6  | -     | 92.6  | -     | 86.9  | -     | 377.3 |

|  363,800 lb +  110,200 lb |       |  36.1-68.9 ft |       |  27.6 ft |          |  32.2 ft/s |       | 360°     |             | ASME B30.5 |          |       |       |          |       |       |             |       |       |           |   |     |           |     |   |     |   |                                                                                     |       |    |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------|-------|----------|-------------|------------|----------|-------|-------|----------|-------|-------|-------------|-------|-------|-----------|---|-----|-----------|-----|---|-----|---|-------------------------------------------------------------------------------------|-------|----|--|
|                                                                                                            |       | 393.7 ft                                                                                       |       |                                                                                           |          |                                                                                               |       |          |             |            |          |       |       |          |       |       |             |       |       |           |   |     |           |     |   |     |   |                                                                                     |       |    |  |
|                                                                                                                                                                                             |       | LSL+LF_2                                                                                       |       |                                                                                           | LSL+LF_3 |                                                                                               |       | LSL+LF_4 |             |            | LSL+LF_6 |       |       | LSL+LF_8 |       |       | LSL+LF_10   |       |       | LSL+LF_12 |   |     | LSL+LF_14 |     |   |     |   |                                                                                     |       |    |  |
|                                                                                                            |       | 39.4 ft                                                                                        |       |                                                                                           |          |                                                                                               |       |          |             |            |          |       |       |          |       |       |             |       |       |           |   |     |           |     |   |     |   |                                                                                     |       |    |  |
|                                                                                                            |       | 0 lb                                                                                           |       | 0-716.6 klb                                                                               |          |                                                                                               | 0 lb  |          | 0-716.6 klb |            |          |       |       |          | 0 lb  |       | 0-716.6 klb |       |       |           |   |     |           |     |   |     |   |                                                                                     |       |    |  |
|                                                                                                            |       | 15°                                                                                            |       | 20°                                                                                       |          | 30°                                                                                           |       | 15°      |             | 20°        |          | 15°   |       | 20°      |       | 15°   |             | 20°   |       | 15°       |   | 20° |           | 15° |   | 20° |   |  |       |    |  |
| ft                                                                                                                                                                                          |       | 1,000 lb                                                                                       |       |                                                                                           |          |                                                                                               |       |          |             |            |          |       |       |          |       |       |             |       |       |           |   |     |           |     |   |     |   |                                                                                     |       | ft |  |
| 52.5                                                                                                                                                                                        | 229.3 | 251.3                                                                                          | -     | -                                                                                         | -        | -                                                                                             | -     | 273.4    | -           | 297.6      | -        | -     | -     | -        | -     | -     | -           | -     | -     | -         | - | -   | -         | -   | - | -   | - | -                                                                                   | 52.5  |    |  |
| 55.8                                                                                                                                                                                        | 217.2 | 250.2                                                                                          | 238.1 | -                                                                                         | 212.7    | 271.2                                                                                         | 240.3 | 273.4    | 244.7       | 297.6      | 257.9    | 224.9 | 328.5 | -        | 339.5 | -     | 350.5       | -     | 388.0 | -         | - | -   | -         | -   | - | -   | - | -                                                                                   | 55.8  |    |  |
| 59.1                                                                                                                                                                                        | 205.0 | 249.1                                                                                          | 238.1 | -                                                                                         | 199.5    | 271.2                                                                                         | 240.3 | 273.4    | 244.7       | 297.6      | 253.5    | 213.8 | 328.5 | 284.4    | 339.5 | 284.4 | 350.5       | 284.4 | 388.0 | 277.8     | - | -   | -         | -   | - | -   | - | -                                                                                   | 59.1  |    |  |
| 62.3                                                                                                                                                                                        | 194.0 | 249.1                                                                                          | 238.1 | 177.5                                                                                     | 189.0    | 271.2                                                                                         | 240.3 | 273.4    | 244.7       | 297.6      | 249.1    | 202.3 | 328.5 | 280.0    | 339.5 | 280.0 | 350.5       | 280.0 | 379.2 | 273.4     | - | -   | -         | -   | - | -   | - | -                                                                                   | 62.3  |    |  |
| 65.6                                                                                                                                                                                        | 183.0 | 249.1                                                                                          | 238.1 | 175.3                                                                                     | 178.6    | 271.2                                                                                         | 240.3 | 273.4    | 244.7       | 297.6      | 244.7    | 190.7 | 328.5 | 275.6    | 339.5 | 275.6 | 350.5       | 275.6 | 370.4 | 269.0     | - | -   | -         | -   | - | -   | - | -                                                                                   | 65.6  |    |  |
| 72.2                                                                                                                                                                                        | 164.2 | 246.9                                                                                          | 238.1 | 170.9                                                                                     | 160.9    | 270.1                                                                                         | 238.1 | 273.4    | 244.7       | 295.4      | 238.1    | 172.0 | 328.5 | 266.8    | 338.4 | 266.8 | 348.3       | 266.8 | 354.9 | 260.1     | - | -   | -         | -   | - | -   | - | -                                                                                   | 72.2  |    |  |
| 78.7                                                                                                                                                                                        | 147.7 | 246.9                                                                                          | 238.1 | 167.6                                                                                     | 143.3    | 269.0                                                                                         | 238.1 | 273.4    | 244.7       | 293.2      | 229.3    | 153.2 | 328.5 | 257.9    | 337.3 | 257.9 | 346.1       | 257.9 | 341.7 | 253.5     | - | -   | -         | -   | - | -   | - | -                                                                                   | 78.7  |    |  |
| 85.3                                                                                                                                                                                        | 133.4 | 244.7                                                                                          | 238.1 | 163.1                                                                                     | 130.1    | 264.6                                                                                         | 235.9 | 272.3    | 244.7       | 283.3      | 222.7    | 138.9 | 325.2 | 251.3    | 329.6 | 251.3 | 334.0       | 251.3 | 329.6 | 245.8     | - | -   | -         | -   | - | -   | - | -                                                                                   | 85.3  |    |  |
| 91.9                                                                                                                                                                                        | 120.2 | 242.5                                                                                          | 235.9 | 159.8                                                                                     | 116.8    | 260.1                                                                                         | 229.3 | 271.2    | 240.3       | 273.4      | 217.2    | 124.6 | 321.9 | 244.7    | 321.9 | 244.7 | 321.9       | 244.7 | 317.5 | 238.1     | - | -   | -         | -   | - | -   | - | -                                                                                   | 91.9  |    |  |
| 98.4                                                                                                                                                                                        | 109.8 | 242.5                                                                                          | 233.7 | 156.5                                                                                     | 106.4    | 255.7                                                                                         | 222.7 | 269.0    | 235.9       | 264.6      | 210.5    | 113.4 | 312.0 | 238.1    | 312.0 | 238.1 | 312.0       | 238.1 | 306.4 | 231.5     | - | -   | -         | -   | - | -   | - | -                                                                                   | 98.4  |    |  |
| 111.5                                                                                                                                                                                       | 91.6  | 239.6                                                                                          | 222.7 | 150.6                                                                                     | 87.3     | 245.8                                                                                         | 212.4 | 265.7    | 224.1       | 246.9      | 199.5    | 93.1  | 292.1 | 226.3    | 292.1 | 226.3 | 292.1       | 226.3 | 285.5 | 219.4     | - | -   | -         | -   | - | -   | - | -                                                                                   | 111.5 |    |  |
| 124.7                                                                                                                                                                                       | 75.6  | 235.9                                                                                          | 212.0 | 144.8                                                                                     | 71.9     | 235.2                                                                                         | 202.5 | 259.4    | 213.5       | 231.9      | 189.2    | 76.8  | 274.8 | 215.3    | 274.8 | 215.3 | 274.8       | 215.3 | 267.9 | 208.9     | - | -   | -         | -   | - | -   | - | -                                                                                   | 124.7 |    |  |
| 137.8                                                                                                                                                                                       | 61.9  | 231.5                                                                                          | 201.7 | 138.9                                                                                     | 58.2     | 224.9                                                                                         | 192.9 | 249.1    | 203.9       | 219.4      | 179.7    | 62.4  | 260.1 | 205.0    | 260.1 | 205.0 | 260.1       | 205.0 | 252.8 | 199.2     | - | -   | -         | -   | - | -   | - | -                                                                                   | 137.8 |    |  |
| 150.9                                                                                                                                                                                       | 51.2  | 225.6                                                                                          | 192.2 | 134.5                                                                                     | 47.6     | 213.1                                                                                         | 184.1 | 237.4    | 195.1       | 208.3      | 172.3    | 51.1  | 246.9 | 196.9    | 246.9 | 196.9 | 246.9       | 196.9 | 238.1 | 189.6     | - | -   | -         | -   | - | -   | - | -                                                                                   | 150.9 |    |  |
| 164.0                                                                                                                                                                                       | 41.4  | 214.2                                                                                          | 183.7 | 130.4                                                                                     | 38.1     | 201.4                                                                                         | 176.0 | 226.0    | 186.7       | 198.0      | 165.0    | 40.9  | 234.4 | 188.9    | 234.4 | 188.9 | 234.4       | 188.9 | 226.3 | 182.2     | - | -   | -         | -   | - | -   | - | -                                                                                   | 164.0 |    |  |
| 177.2                                                                                                                                                                                       | 32.6  | 208.3                                                                                          | 176.4 | 126.8                                                                                     | 29.5     | 189.6                                                                                         | 168.7 | 215.0    | 178.6       | 188.5      | 157.6    | 31.7  | 222.7 | 180.8    | 222.7 | 180.8 | 222.7       | 180.8 | 216.1 | 175.3     | - | -   | -         | -   | - | -   | - | -                                                                                   | 177.2 |    |  |
| 190.3                                                                                                                                                                                       | 24.3  | 196.9                                                                                          | 169.8 | 123.1                                                                                     | 21.3     | 172.0                                                                                         | 162.0 | 203.9    | 172.0       | 180.4      | 152.1    | 22.9  | 213.1 | 174.9    | 213.1 | 174.9 | 213.1       | 174.9 | 207.2 | 168.7     | - | -   | -         | -   | - | -   | - | -                                                                                   | 190.3 |    |  |
| 203.4                                                                                                                                                                                       | 16.8  | 188.9                                                                                          | 163.5 | 119.8                                                                                     | 13.8     | 162.0                                                                                         | 153.6 | 195.1    | 165.9       | 172.7      | 146.4    | 15.1  | 204.5 | 169.0    | 204.5 | 169.0 | 204.7       | 169.0 | 198.4 | 162.8     | - | -   | -         | -   | - | -   | - | -                                                                                   | 203.4 |    |  |
| 213.3                                                                                                                                                                                       | 11.8  | 181.3                                                                                          | 159.1 | 117.6                                                                                     | 8.8      | 156.9                                                                                         | 146.1 | 190.1    | 161.5       | 167.2      | 142.4    | 9.9   | 197.3 | 164.6    | 198.4 | 164.6 | 198.4       | 164.6 | 191.8 | 158.4     | - | -   | -         | -   | - | -   | - | -                                                                                   | 213.3 |    |  |
| 216.5                                                                                                                                                                                       | 10.1  | 179.7                                                                                          | 157.6 | 116.8                                                                                     | -        | 155.4                                                                                         | 144.4 | 188.5    | 159.8       | 165.3      | 141.1    | 8.2   | 196.2 | 163.1    | 196.2 | 163.1 | 196.2       | 163.1 | 189.6 | 156.9     | - | -   | -         | -   | - | -   | - | -                                                                                   | 216.5 |    |  |
| 219.8                                                                                                                                                                                       | 8.6   | 178.2                                                                                          | 156.5 | 116.1                                                                                     | -        | 152.5                                                                                         | 143.1 | 186.8    | 158.5       | 163.9      | 140.0    | -     | 194.4 | 161.9    | 194.4 | 161.9 | 194.4       | 161.9 | 187.7 | 155.4     | - | -   | -         | -   | - | -   | - | -                                                                                   | 219.8 |    |  |
| 229.7                                                                                                                                                                                       | -     | 173.8                                                                                          | 152.7 | 113.9                                                                                     | -        | 146.2                                                                                         | 139.3 | 181.9    | 154.7       | 159.5      | 136.7    | -     | 188.9 | 158.0    | 188.9 | 158.0 | 188.9       | 158.0 | 181.9 | 152.1     | - | -   | -         | -   | - | -   | - | -                                                                                   | 229.7 |    |  |
| 242.8                                                                                                                                                                                       | -     | 167.2                                                                                          | 147.7 | 111.4                                                                                     | -        | 140.7                                                                                         | 132.3 | 173.8    | 149.9       | 153.6      | 132.6    | -     | 182.2 | 153.2    | 182.2 | 153.2 | 182.2       | 153.2 | 176.0 | 147.0     | - | -   | -         | -   | - | -   | - | -                                                                                   | 242.8 |    |  |
| 255.9                                                                                                                                                                                       | -     | 162.0                                                                                          | 143.3 | 109.3                                                                                     | -        | 135.6                                                                                         | 127.9 | 164.2    | 145.5       | 147.7      | 129.0    | -     | 176.4 | 148.8    | 176.4 | 148.8 | 176.4       | 148.8 | 169.8 | 142.6     | - | -   | -         | -   | - | -   | - | -                                                                                   | 255.9 |    |  |
| 269.0                                                                                                                                                                                       | -     | 154.0                                                                                          | 139.6 | 107.3                                                                                     | -        | 130.1                                                                                         | 123.8 | 152.5    | 141.8       | 142.6      | 125.3    | -     | 166.1 | 145.1    | 165.3 | 145.1 | 163.9       | 145.1 | 163.1 | 138.9     | - | -   | -         | -   | - | -   | - | -                                                                                   | 269.0 |    |  |
| 282.2                                                                                                                                                                                       | -     | 144.8                                                                                          | 136.0 | 105.5                                                                                     | -        | 126.8                                                                                         | 121.3 | 141.5    | 137.1       | 134.5      | 122.0    | -     | 155.4 | 141.5    | 154.3 | 141.5 | 152.1       | 141.5 | 151.4 | 136.0     | - | -   | -         | -   | - | -   | - | -                                                                                   | 282.2 |    |  |
| 295.3                                                                                                                                                                                       | -     | 134.5                                                                                          | 132.3 | 103.8                                                                                     | -        | 124.6                                                                                         | 119.0 | 131.2    | 131.2       | 124.6      | 119.0    | -     | 144.4 | 137.8    | 143.3 | 137.8 | 141.1       | 137.8 | 139.4 | 132.7     | - | -   | -         | -   | - | -   | - | -                                                                                   | 295.3 |    |  |
| 308.4                                                                                                                                                                                       | -     | 125.7                                                                                          | 124.9 | 102.4                                                                                     | -        | 122.4                                                                                         | 117.3 | 122.4    | 122.4       | 115.0      | 112.7    | -     | 134.7 | 132.6    | 133.4 | 132.5 | 131.7       | 131.9 | 129.0 | 129.0     | - | -   | -         | -   | - | -   | - | -                                                                                   | 308.4 |    |  |
| 321.5                                                                                                                                                                                       | -     | 117.3                                                                                          | 118.2 | 101.2                                                                                     | -        | 115.2                                                                                         | 113.8 | 113.5    | 114.1       | 106.7      | 105.2    | -     | 125.3 | 126.0    | 124.2 | 124.6 | 122.4       | 122.4 | 118.7 | 119.4     | - | -   | -         | -   | - | -   | - | -                                                                                   | 321.5 |    |  |
| 328.1                                                                                                                                                                                       | -     | 113.8                                                                                          | 114.2 | 100.8                                                                                     | -        | 111.4                                                                                         | 110.8 | 109.0    | 110.3       | 102.7      | 100.8    | -     | 120.5 | 122.0    | 119.4 | 120.2 | 117.9       | 117.9 | 113.5 | 114.6     | - | -   | -         | -   | - | -   | - | -                                                                                   | 328.1 |    |  |
| 334.6                                                                                                                                                                                       | -     | 110.2                                                                                          | 110.2 | -                                                                                         | -        | 107.6                                                                                         | 107.8 | 104.5    | 106.5       | 98.8       | 96.6     | -     | 115.7 | 117.9    | 114.6 | 115.7 | 113.5       | 113.5 | 109.5 | 110.5     | - | -   | -         | -   | - | -   | - | -                                                                                   | 334.6 |    |  |
| 347.8                                                                                                                                                                                       | -     | 103.0                                                                                          | 103.2 | -                                                                                         | -        | 100.4                                                                                         | 100.8 | 92.2     | 99.1        | 91.3       | 88.8     | -     | 107.8 | 110.2    | 106.9 | 108.7 | 105.4       | 106.5 | 101.0 | 102.3     | - | -   | -         | -   | - | -   | - | -                                                                                   | 347.8 |    |  |
| 360.9                                                                                                                                                                                       | -     | 96.2                                                                                           | 96.5  | -                                                                                         | -        | 93.7                                                                                          | 94.0  | 80.2     | 86.6        | 84.0       | 81.5     | -     | 100.3 | 102.7    | 99.6  | 101.7 | 98.1        | 99.5  | 93.3  | 94.7      | - | -   | -         | -   | - | -   | - | -                                                                                   | 360.9 |    |  |
| 370.7                                                                                                                                                                                       | -     | 91.6                                                                                           | 91.8  | -                                                                                         | -        | 89.1                                                                                          | 89.3  | 74.1     | 76.1        | 78.9       | 76.5     | -     | 95.5  | 97.7     | 94.7  | 96.6  | 93.1        | 94.4  | 87.8  | 89.1      | - | -   | -         | -   | - | -   | - | -                                                                                   | 370.7 |    |  |
| 374.0                                                                                                                                                                                       | -     | 90.2                                                                                           | 90.4  | -                                                                                         | -        | 87.5                                                                                          | 76.9  | 72.1     | 37.0        | 77.2       | -        | -     | 93.9  | -        | 93.0  | -     | 91.5        | -     | 86.1  | -         | - | -   | -         | -   | - | -   | - | -                                                                                   | 374.0 |    |  |
| 383.9                                                                                                                                                                                       | -     | 85.8                                                                                           | -     | -                                                                                         | -        | 83.3                                                                                          | -     | 63.3     | -           | 72.8       | -        | -     | 89.7  | -        | 88.8  | -     | 87.3        | -     | 81.1  | -         | - | -   | -         | -   | - | -   | - | -                                                                                   | 383.9 |    |  |



|  363,800 lb +  110,200 lb |   |  36.1-68.9 ft |   |  27.6 ft |          |  32.2 ft/s |       | 360°        |       | ASME B30.5 |          |       |       |          |       |             |           |       |       |                                                                                     |       |     |           |     |  |     |  |                                                                                     |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------|-------|-------------|-------|------------|----------|-------|-------|----------|-------|-------------|-----------|-------|-------|-------------------------------------------------------------------------------------|-------|-----|-----------|-----|--|-----|--|-------------------------------------------------------------------------------------|--|
|                                                                                                            |   | 403.5 ft                                                                                       |   |                                                                                           |          |                                                                                               |       |             |       |            |          |       |       |          |       |             |           |       |       |  |       |     |           |     |  |     |  |                                                                                     |  |
|                                                                                                                                                                                             |   | LSL+LF_2                                                                                       |   |                                                                                           | LSL+LF_3 |                                                                                               |       | LSL+LF_4    |       |            | LSL+LF_6 |       |       | LSL+LF_8 |       |             | LSL+LF_10 |       |       | LSL+LF_12                                                                           |       |     | LSL+LF_14 |     |  |     |  |                                                                                     |  |
|                                                                                                            |   | 39.4 ft                                                                                        |   |                                                                                           |          |                                                                                               |       |             |       |            |          |       |       |          |       |             |           |       |       |                                                                                     |       |     |           |     |  |     |  |                                                                                     |  |
|                                                                                                            |   | 0 lb                                                                                           |   | 0-716.6 klb                                                                               |          | 0 lb                                                                                          |       | 0-716.6 klb |       |            |          |       |       | 0 lb     |       | 0-716.6 klb |           |       |       |                                                                                     |       |     |           |     |  |     |  |                                                                                     |  |
|                                                                                                            |   | 15°                                                                                            |   | 20°                                                                                       |          | 30°                                                                                           |       | 15°         |       | 20°        |          | 15°   |       | 20°      |       | 15°         |           | 20°   |       | 15°                                                                                 |       | 20° |           | 15° |  | 20° |  |  |  |
| ft                                                                                                                                                                                          |   | 1,000 lb                                                                                       |   |                                                                                           |          |                                                                                               |       |             |       |            |          |       |       |          |       |             |           |       |       |                                                                                     |       |     |           |     |  | ft  |  |                                                                                     |  |
| 55.8                                                                                                                                                                                        | - | -                                                                                              | - | -                                                                                         | -        | -                                                                                             | -     | 264.6       | -     | 284.4      | -        | 220.5 | 315.3 | -        | 326.3 | -           | 339.5     | -     | 374.8 | -                                                                                   | 55.8  |     |           |     |  |     |  |                                                                                     |  |
| 59.1                                                                                                                                                                                        | - | -                                                                                              | - | -                                                                                         | 195.1    | 262.4                                                                                         | 233.7 | 264.6       | 240.3 | 284.4      | 255.7    | 208.3 | 315.3 | 286.6    | 326.3 | 286.6       | 339.5     | 286.6 | 374.8 | 280.0                                                                               | 59.1  |     |           |     |  |     |  |                                                                                     |  |
| 65.6                                                                                                                                                                                        | - | -                                                                                              | - | -                                                                                         | 173.1    | 262.4                                                                                         | 233.7 | 264.6       | 240.3 | 284.4      | 246.9    | 185.2 | 315.3 | 275.6    | 326.3 | 275.6       | 339.5     | 275.6 | 372.6 | 271.2                                                                               | 65.6  |     |           |     |  |     |  |                                                                                     |  |
| 72.2                                                                                                                                                                                        | - | -                                                                                              | - | -                                                                                         | 156.0    | 262.4                                                                                         | 233.7 | 264.6       | 240.3 | 284.4      | 238.1    | 167.0 | 315.3 | 269.0    | 326.3 | 269.0       | 338.4     | 269.0 | 357.1 | 262.4                                                                               | 72.2  |     |           |     |  |     |  |                                                                                     |  |
| 78.7                                                                                                                                                                                        | - | -                                                                                              | - | -                                                                                         | 138.9    | 262.4                                                                                         | 233.7 | 264.6       | 240.3 | 284.4      | 231.5    | 148.8 | 315.3 | 260.1    | 326.3 | 260.1       | 337.3     | 260.1 | 343.9 | 253.5                                                                               | 78.7  |     |           |     |  |     |  |                                                                                     |  |
| 85.3                                                                                                                                                                                        | - | -                                                                                              | - | -                                                                                         | 125.7    | 260.1                                                                                         | 233.7 | 263.5       | 240.3 | 280.0      | 224.9    | 134.5 | 315.3 | 253.5    | 324.1 | 253.5       | 330.7     | 253.5 | 331.8 | 246.9                                                                               | 85.3  |     |           |     |  |     |  |                                                                                     |  |
| 91.9                                                                                                                                                                                        | - | -                                                                                              | - | -                                                                                         | 112.4    | 257.9                                                                                         | 227.1 | 262.4       | 238.1 | 275.6      | 218.3    | 120.2 | 315.3 | 246.9    | 324.1 | 246.9       | 324.1     | 246.9 | 319.7 | 240.3                                                                               | 91.9  |     |           |     |  |     |  |                                                                                     |  |
| 98.4                                                                                                                                                                                        | - | -                                                                                              | - | -                                                                                         | 102.4    | 254.6                                                                                         | 222.7 | 260.1       | 233.7 | 266.8      | 211.6    | 109.3 | 309.7 | 240.3    | 314.2 | 240.3       | 314.2     | 240.3 | 308.6 | 233.7                                                                               | 98.4  |     |           |     |  |     |  |                                                                                     |  |
| 111.5                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | 83.8     | 248.0                                                                                         | 213.8 | 257.9       | 224.9 | 250.2      | 200.6    | 89.5  | 295.4 | 228.5    | 295.4 | 228.5       | 295.4     | 228.5 | 288.8 | 221.6                                                                               | 111.5 |     |           |     |  |     |  |                                                                                     |  |
| 124.7                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | 68.5     | 240.3                                                                                         | 205.0 | 253.5       | 215.7 | 235.2      | 190.7    | 73.3  | 278.5 | 217.5    | 278.5 | 217.5       | 278.5     | 217.5 | 271.2 | 210.5                                                                               | 124.7 |     |           |     |  |     |  |                                                                                     |  |
| 137.8                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | 55.1     | 231.5                                                                                         | 196.2 | 244.7       | 206.1 | 220.5      | 181.9    | 58.9  | 262.4 | 207.2    | 262.4 | 207.2       | 262.4     | 207.2 | 255.7 | 200.6                                                                               | 137.8 |     |           |     |  |     |  |                                                                                     |  |
| 150.9                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | 44.5     | 221.2                                                                                         | 188.1 | 235.9       | 198.0 | 210.2      | 173.8    | 47.7  | 249.1 | 198.4    | 249.1 | 198.4       | 249.1     | 198.4 | 242.5 | 191.8                                                                               | 150.9 |     |           |     |  |     |  |                                                                                     |  |
| 164.0                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | 35.1     | 207.2                                                                                         | 180.0 | 227.1       | 190.3 | 200.3      | 166.4    | 37.6  | 236.6 | 190.3    | 236.6 | 190.3       | 236.6     | 190.3 | 230.8 | 187.7                                                                               | 164.0 |     |           |     |  |     |  |                                                                                     |  |
| 177.2                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | 26.7     | 191.8                                                                                         | 172.0 | 218.3       | 183.0 | 190.7      | 159.8    | 28.7  | 224.9 | 183.0    | 224.9 | 183.0       | 224.9     | 183.0 | 219.7 | 176.4                                                                               | 177.2 |     |           |     |  |     |  |                                                                                     |  |
| 190.3                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | 18.7     | 181.5                                                                                         | 164.6 | 207.6       | 175.3 | 182.2      | 153.7    | 20.3  | 216.1 | 176.4    | 216.1 | 176.4       | 216.1     | 176.4 | 209.4 | 169.8                                                                               | 190.3 |     |           |     |  |     |  |                                                                                     |  |
| 203.4                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | 11.4     | 172.0                                                                                         | 157.6 | 198.4       | 168.7 | 174.9      | 148.1    | 12.5  | 207.2 | 170.4    | 207.2 | 170.3       | 207.2     | 170.4 | 200.6 | 163.9                                                                               | 203.4 |     |           |     |  |     |  |                                                                                     |  |
| 210.0                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | 7.9      | 163.7                                                                                         | 154.9 | 194.0       | 165.3 | 171.2      | 145.1    | 8.8   | 202.8 | 167.8    | 202.8 | 167.6       | 202.8     | 167.3 | 196.2 | 160.9                                                                               | 210.0 |     |           |     |  |     |  |                                                                                     |  |
| 216.5                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -        | 159.8                                                                                         | 152.1 | 189.6       | 162.0 | 167.6      | 142.2    | -     | 198.4 | 164.2    | 198.4 | 164.2       | 198.4     | 164.2 | 192.5 | 158.5                                                                               | 216.5 |     |           |     |  |     |  |                                                                                     |  |
| 229.7                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -        | 154.0                                                                                         | 143.3 | 180.8       | 156.9 | 160.9      | 137.8    | -     | 191.1 | 159.8    | 191.1 | 159.8       | 190.0     | 159.8 | 185.2 | 153.2                                                                               | 229.7 |     |           |     |  |     |  |                                                                                     |  |
| 242.8                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -        | 146.2                                                                                         | 138.5 | 171.6       | 152.1 | 155.1      | 133.7    | -     | 184.1 | 155.4    | 183.7 | 155.4       | 182.2     | 155.4 | 178.6 | 148.8                                                                               | 242.8 |     |           |     |  |     |  |                                                                                     |  |
| 255.9                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -        | 141.1                                                                                         | 133.4 | 162.0       | 147.7 | 149.9      | 130.1    | -     | 177.5 | 151.0    | 176.4 | 151.0       | 174.2     | 151.0 | 170.1 | 144.4                                                                               | 255.9 |     |           |     |  |     |  |                                                                                     |  |
| 269.0                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -        | 136.3                                                                                         | 129.7 | 150.3       | 143.3 | 141.8      | 126.4    | -     | 165.0 | 146.6    | 163.9 | 146.6       | 161.7     | 146.6 | 159.8 | 140.0                                                                               | 269.0 |     |           |     |  |     |  |                                                                                     |  |
| 282.2                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -        | 133.0                                                                                         | 126.4 | 139.3       | 136.7 | 132.6      | 122.8    | -     | 153.2 | 142.9    | 152.1 | 142.9       | 149.9     | 142.6 | 147.3 | 137.1                                                                               | 282.2 |     |           |     |  |     |  |                                                                                     |  |
| 295.3                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -        | 130.1                                                                                         | 123.5 | 129.0       | 127.9 | 122.4      | 120.2    | -     | 142.2 | 140.0    | 141.1 | 140.0       | 138.9     | 138.9 | 135.1 | 134.1                                                                               | 295.3 |     |           |     |  |     |  |                                                                                     |  |
| 308.4                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -        | 121.3                                                                                         | 119.6 | 118.8       | 119.0 | 113.1      | 111.0    | -     | 132.3 | 132.3    | 131.2 | 131.7       | 129.3     | 129.3 | 124.6 | 126.8                                                                               | 308.4 |     |           |     |  |     |  |                                                                                     |  |
| 321.5                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -        | 112.9                                                                                         | 113.0 | 107.2       | 109.3 | 104.3      | 102.1    | -     | 122.7 | 123.1    | 121.6 | 122.0       | 119.8     | 119.8 | 114.9 | 116.5                                                                               | 321.5 |     |           |     |  |     |  |                                                                                     |  |
| 334.6                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -        | 104.9                                                                                         | 105.4 | 94.6        | 98.8  | 95.9       | 93.3     | -     | 112.4 | 113.5    | 111.3 | 112.4       | 110.2     | 110.2 | 105.8 | 107.1                                                                               | 334.6 |     |           |     |  |     |  |                                                                                     |  |
| 347.8                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -        | 97.7                                                                                          | 98.1  | 82.5        | 84.8  | 88.0       | 85.6     | -     | 104.5 | 105.2    | 103.4 | 104.1       | 102.0     | 102.8 | 97.0  | 98.3                                                                                | 347.8 |     |           |     |  |     |  |                                                                                     |  |
| 360.9                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -        | 91.2                                                                                          | 91.4  | 71.5        | 74.1  | 80.8       | 78.4     | -     | 97.0  | 98.1     | 96.0  | 97.1        | 94.4      | 95.5  | 89.2  | 90.5                                                                                | 360.9 |     |           |     |  |     |  |                                                                                     |  |
| 374.0                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -        | 84.9                                                                                          | 85.1  | 61.7        | 61.1  | 73.9       | 71.7     | -     | 89.9  | 91.5     | 89.1  | 90.6        | 87.5      | 89.1  | 82.2  | 83.2                                                                                | 374.0 |     |           |     |  |     |  |                                                                                     |  |
| 380.6                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -        | 82.1                                                                                          | 82.2  | 55.8        | 43.9  | 70.9       | 68.6     | -     | 87.2  | 88.8     | 86.3  | 88.0        | 84.6      | 86.4  | 78.8  | 79.8                                                                                | 380.6 |     |           |     |  |     |  |                                                                                     |  |
| 383.9                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -        | 80.6                                                                                          | 39.2  | 52.8        | -     | 69.4       | -        | -     | 85.8  | -        | 84.9  | -           | 83.1      | -     | 77.1  | -                                                                                   | 383.9 |     |           |     |  |     |  |                                                                                     |  |
| 387.1                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -        | 79.2                                                                                          | -     | 49.8        | -     | 68.0       | -        | -     | 84.4  | -        | 83.5  | -           | 81.8      | -     | 75.4  | -                                                                                   | 387.1 |     |           |     |  |     |  |                                                                                     |  |
| 393.7                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -        | 76.5                                                                                          | -     | 45.2        | -     | 65.0       | -        | -     | 81.6  | -        | 80.7  | -           | 79.1      | -     | 72.3  | -                                                                                   | 393.7 |     |           |     |  |     |  |                                                                                     |  |

| 363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s 360° ASME B30.5 |          |             |          |       |       |          |             |          |       |          |       |       |           |       |             |       |           |       |       |       |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|----------|-------|-------|----------|-------------|----------|-------|----------|-------|-------|-----------|-------|-------------|-------|-----------|-------|-------|-------|-------|
| 413.4 ft                                                                                                                                                                                                                                                                                                                                                                                                         |          |             |          |       |       |          |             |          |       |          |       |       |           |       |             |       |           |       |       |       |       |
| LSL+LF_2                                                                                                                                                                                                                                                                                                                                                                                                         |          |             | LSL+LF_3 |       |       | LSL+LF_4 |             | LSL+LF_6 |       | LSL+LF_8 |       |       | LSL+LF_10 |       | LSL+LF_12   |       | LSL+LF_14 |       |       |       |       |
| 39.4 ft                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |          |       |       |          |             |          |       |          |       |       |           |       |             |       |           |       |       |       |       |
| 0 lb                                                                                                                                                                                                                                                                                                                                                                                                             |          | 0-716.6 klb |          |       | 0 lb  |          | 0-716.6 klb |          |       |          |       |       | 0 lb      |       | 0-716.6 klb |       |           |       |       |       |       |
| 15°                                                                                                                                                                                                                                                                                                                                                                                                              |          | 20°         |          | 30°   |       | 15°      |             | 20°      |       | 15°      |       | 20°   |           | 15°   |             | 20°   |           | 15°   |       | 20°   |       |
| ft                                                                                                                                                                                                                                                                                                                                                                                                               | 1,000 lb |             |          |       |       |          |             |          |       |          |       |       |           |       |             |       |           |       |       |       | ft    |
| 55.8                                                                                                                                                                                                                                                                                                                                                                                                             | 209.4    | 218.3       | -        | -     | -     | -        | -           | 238.1    | -     | 266.8    | -     | 219.4 | 293.2     | -     | 304.2       | -     | 332.9     | -     | 368.2 | -     | 55.8  |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                             | 198.4    | 218.3       | 212.7    | -     | 195.1 | 235.9    | 231.5       | 238.1    | 231.5 | 266.8    | 255.7 | 206.1 | 293.2     | 284.4 | 304.2       | 286.6 | 332.9     | 286.6 | 368.2 | 280.0 | 59.1  |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                             | 176.4    | 217.2       | 211.6    | 176.4 | 174.2 | 235.9    | 229.3       | 238.1    | 229.3 | 266.8    | 246.9 | 184.1 | 293.2     | 277.8 | 304.2       | 277.8 | 332.9     | 277.8 | 366.0 | 271.2 | 65.6  |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                             | 158.7    | 216.1       | 211.6    | 172.0 | 157.1 | 234.8    | 229.3       | 237.0    | 229.3 | 266.8    | 240.3 | 165.9 | 293.2     | 269.0 | 304.2       | 269.0 | 331.8     | 269.0 | 359.4 | 262.4 | 72.2  |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                             | 143.3    | 216.1       | 210.5    | 167.6 | 140.0 | 233.7    | 229.3       | 235.9    | 229.3 | 266.8    | 231.5 | 147.7 | 293.2     | 262.4 | 304.2       | 262.4 | 330.7     | 262.4 | 346.1 | 255.7 | 78.7  |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                             | 129.0    | 215.0       | 210.5    | 164.2 | 127.3 | 232.6    | 227.1       | 234.8    | 227.1 | 266.8    | 224.9 | 133.9 | 293.2     | 253.5 | 303.1       | 253.5 | 329.6     | 253.5 | 334.0 | 248.0 | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                             | 116.8    | 212.7       | 209.4    | 160.9 | 114.6 | 231.5    | 227.1       | 233.7    | 224.9 | 266.8    | 219.4 | 120.2 | 293.2     | 246.9 | 302.0       | 246.9 | 328.5     | 246.9 | 321.9 | 240.3 | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                             | 106.0    | 211.6       | 207.2    | 157.6 | 104.5 | 230.4    | 224.9       | 231.5    | 224.9 | 263.5    | 213.8 | 109.3 | 292.1     | 240.3 | 302.0       | 240.3 | 317.5     | 240.3 | 310.9 | 233.7 | 98.4  |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                            | 88.1     | 209.1       | 204.3    | 151.8 | 86.0  | 228.2    | 221.9       | 228.2    | 221.2 | 252.4    | 208.8 | 89.6  | 289.9     | 228.5 | 295.4       | 228.5 | 297.6     | 228.5 | 291.0 | 222.1 | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                            | 72.5     | 206.5       | 200.6    | 146.2 | 70.9  | 224.9    | 218.6       | 224.9    | 217.2 | 237.4    | 192.5 | 73.6  | 279.3     | 217.9 | 280.7       | 217.9 | 280.7     | 217.9 | 274.5 | 212.2 | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                            | 59.1     | 202.8       | 196.2    | 141.1 | 57.5  | 220.5    | 215.0       | 220.5    | 212.7 | 222.7    | 183.0 | 59.3  | 264.6     | 208.3 | 264.6       | 208.3 | 264.6     | 208.3 | 259.4 | 202.5 | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                            | 48.5     | 198.4       | 191.1    | 136.7 | 47.1  | 216.1    | 210.5       | 215.3    | 206.9 | 212.4    | 174.9 | 48.3  | 251.3     | 200.3 | 251.3       | 200.3 | 251.3     | 200.3 | 244.7 | 192.9 | 150.9 |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                            | 39.0     | 193.6       | 185.6    | 132.3 | 37.8  | 209.4    | 203.2       | 205.4    | 198.0 | 202.5    | 167.6 | 38.3  | 238.8     | 192.2 | 238.8       | 192.2 | 238.8     | 192.2 | 233.0 | 185.6 | 164.0 |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                            | 30.6     | 188.5       | 179.7    | 127.9 | 29.5  | 205.0    | 196.2       | 198.4    | 190.7 | 192.9    | 160.9 | 29.3  | 227.1     | 184.1 | 227.1       | 184.1 | 227.1     | 184.1 | 221.9 | 178.6 | 177.2 |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                            | 22.6     | 180.8       | 171.2    | 124.2 | 21.5  | 197.3    | 188.1       | 191.4    | 184.1 | 184.1    | 155.1 | 21.1  | 218.3     | 178.2 | 218.3       | 178.2 | 218.3     | 178.2 | 211.6 | 172.0 | 190.3 |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                            | 15.1     | 172.6       | 165.6    | 121.0 | 14.1  | 189.6    | 181.4       | 185.7    | 174.7 | 176.8    | 149.7 | 13.4  | 209.4     | 172.3 | 209.4       | 172.3 | 209.7     | 172.3 | 202.8 | 165.3 | 203.4 |
| 213.3                                                                                                                                                                                                                                                                                                                                                                                                            | 10.1     | 168.7       | 160.9    | 119.0 | 9.0   | 185.2    | 177.5       | 179.1    | 170.3 | 171.5    | 145.7 | 7.9   | 203.4     | 167.9 | 203.4       | 167.9 | 203.7     | 167.9 | 196.6 | 160.8 | 213.3 |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                            | 8.4      | 166.4       | 159.8    | 117.9 | -     | 184.1    | 176.4       | 175.3    | 168.7 | 169.8    | 144.4 | -     | 201.7     | 166.4 | 201.7       | 166.4 | 201.7     | 166.4 | 194.7 | 159.5 | 216.5 |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                            | -        | 158.4       | 150.3    | 115.2 | -     | 176.7    | 167.9       | 169.4    | 160.2 | 163.1    | 139.3 | -     | 194.4     | 161.3 | 194.0       | 161.3 | 194.4     | 161.3 | 187.4 | 154.3 | 229.7 |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                            | -        | 152.1       | 144.0    | 112.4 | -     | 171.2    | 160.9       | 161.7    | 155.4 | 157.3    | 134.8 | -     | 186.7     | 156.5 | 186.3       | 156.5 | 184.8     | 156.5 | 180.8 | 149.9 | 242.8 |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                            | -        | 147.7       | 138.9    | 110.2 | -     | 165.3    | 156.5       | 156.5    | 151.0 | 152.1    | 131.2 | -     | 178.6     | 152.1 | 177.5       | 152.1 | 173.1     | 152.1 | 171.2 | 145.9 | 255.9 |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                            | -        | 142.2       | 136.0    | 108.5 | -     | 153.6    | 150.6       | 149.9    | 146.2 | 144.8    | 127.5 | -     | 165.3     | 147.7 | 164.2       | 147.7 | 159.8     | 147.7 | 158.7 | 142.2 | 269.0 |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                            | -        | 137.8       | 132.3    | 106.7 | -     | 142.6    | 142.9       | 141.8    | 140.4 | 136.0    | 124.2 | -     | 153.2     | 144.0 | 152.5       | 144.0 | 147.7     | 143.3 | 146.2 | 138.5 | 282.2 |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                            | -        | 133.4       | 130.1    | 104.9 | -     | 132.3    | 133.4       | 132.3    | 132.3 | 125.7    | 121.3 | -     | 142.2     | 141.1 | 142.2       | 141.1 | 136.7     | 137.8 | 134.8 | 133.4 | 295.3 |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                            | -        | 124.6       | 123.9    | 103.5 | -     | 123.5    | 123.7       | 123.5    | 123.5 | 116.1    | 114.6 | -     | 132.3     | 133.4 | 132.3       | 132.3 | 127.1     | 127.5 | 124.6 | 124.6 | 308.4 |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                            | -        | 116.2       | 116.3    | 102.1 | -     | 115.2    | 116.1       | 115.1    | 115.2 | 107.5    | 107.3 | -     | 123.1     | 124.2 | 123.1       | 123.1 | 117.9     | 117.9 | 114.9 | 115.0 | 321.5 |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                            | -        | 108.2       | 108.7    | 101.0 | -     | 107.6    | 108.0       | 107.1    | 107.6 | 99.6     | 99.0  | -     | 113.5     | 114.6 | 113.5       | 113.5 | 109.1     | 109.3 | 105.6 | 105.8 | 334.6 |
| 344.5                                                                                                                                                                                                                                                                                                                                                                                                            | -        | 103.0       | 103.3    | 80.2  | -     | 102.3    | 102.6       | 101.9    | 102.2 | 94.2     | 93.1  | -     | 107.5     | 108.5 | 107.3       | 107.7 | 102.7     | 103.2 | 99.0  | 99.2  | 344.5 |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                            | -        | 101.2       | 101.5    | -     | -     | 100.5    | 100.8       | 100.1    | 100.4 | 92.4     | 91.2  | -     | 105.5     | 106.4 | 105.2       | 105.8 | 100.6     | 101.1 | 96.8  | 97.0  | 347.8 |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                            | -        | 94.5        | 94.7     | -     | -     | 93.8     | 93.8        | 93.4     | 93.6  | 85.6     | 83.9  | -     | 97.8      | 98.8  | 97.6        | 98.4  | 92.7      | 93.6  | 88.8  | 89.1  | 360.9 |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                            | -        | 88.2        | 88.4     | -     | -     | 87.5     | 86.9        | 87.1     | 87.3  | 79.4     | 77.2  | -     | 90.6      | 91.9  | 90.4        | 91.5  | 85.5      | 86.9  | 81.6  | 81.9  | 374.0 |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                            | -        | 82.6        | 82.8     | -     | -     | 79.1     | 78.5        | 81.5     | 81.7  | 73.2     | 71.0  | -     | 84.7      | 86.2  | 84.5        | 86.0  | 79.8      | 81.4  | 74.5  | 75.0  | 387.1 |
| 390.4                                                                                                                                                                                                                                                                                                                                                                                                            | -        | 81.2        | 81.4     | -     | -     | 77.1     | -           | 80.1     | 80.2  | 71.7     | -     | -     | 83.3      | -     | 83.0        | -     | 78.4      | -     | 73.0  | -     | 390.4 |
| 400.3                                                                                                                                                                                                                                                                                                                                                                                                            | -        | 77.2        | -        | -     | -     | 70.1     | -           | 76.3     | -     | 67.5     | -     | -     | 79.4      | -     | 78.9        | -     | 74.5      | -     | 68.6  | -     | 400.3 |

|                                                                                     |      |            |            |            |            |            |            |            |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|------------|
|  | 0 lb | 143,300 lb | 209,500 lb | 275,600 lb | 363,800 lb | 452,000 lb | 584,300 lb | 716,600 lb |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|------------|

LSL+LF\_2 – LSL+LF\_6:  36.1 ft – 62.3 ft

LSL+LF\_8 - LSL+LF\_12:  36.1 ft - 68.9 ft

LSL+LF\_14:  42.7 ft – 68.9 ft

**LSL+LF\_14:**  496,100 lb +  110,200 lb

| 363,800 lb +  110,200 lb |   |          |   |   |             |       |       |       |       |          |       |       |       |       |             |       |       |       |       |  36.1-68.9 ft |       |  |  |  27.6 ft |             |  |  |  32.2 ft/s |  |           |  | 360° |  | ASME B30.5 |           |  |  |  |  |     |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------|---|----------|---|---|-------------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------------|-------|-------|-------|-------|------------------------------------------------------------------------------------------------|-------|--|--|-------------------------------------------------------------------------------------------|-------------|--|--|-----------------------------------------------------------------------------------------------|--|-----------|--|------|--|------------|-----------|--|--|--|--|-----|--|--|--|--|
|  423.2 ft                |   |          |   |   |             |       |       |       |       |          |       |       |       |       |             |       |       |       |       |                                                                                                |       |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| LSL+LF_2                                                                                                  |   |          |   |   | LSL+LF_3    |       |       |       |       | LSL+LF_4 |       |       |       |       | LSL+LF_6    |       |       |       |       | LSL+LF_8                                                                                       |       |  |  |                                                                                           | LSL+LF_10   |  |  |                                                                                               |  | LSL+LF_12 |  |      |  |            | LSL+LF_14 |  |  |  |  |     |  |  |  |  |
|  39.4 ft                 |   |          |   |   |             |       |       |       |       |          |       |       |       |       |             |       |       |       |       |                                                                                                |       |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 0 lb                                                                                                      |   |          |   |   | 0-716.6 klb |       |       |       |       | 0 lb     |       |       |       |       | 0-716.6 klb |       |       |       |       | 0 lb                                                                                           |       |  |  |                                                                                           | 0-716.6 klb |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 15°                                                                                                       |   |          |   |   | 20°         |       |       |       |       | 30°      |       |       |       |       | 15°         |       |       |       |       | 20°                                                                                            |       |  |  |                                                                                           | 15°         |  |  |                                                                                               |  | 20°       |  |      |  |            | 15°       |  |  |  |  | 20° |  |  |  |  |
| ft                                                                                                        |   | 1,000 lb |   |   |             |       |       |       |       |          |       |       |       |       |             |       |       |       |       | ft                                                                                             |       |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 55.8                                                                                                      | - | -        | - | - | -           | -     | -     | 227.1 | -     | 255.7    | -     | 213.8 | 282.2 | -     | 293.2       | -     | 319.7 | -     | 354.9 | -                                                                                              | 55.8  |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 59.1                                                                                                      | - | -        | - | - | 190.7       | 224.9 | 222.7 | 227.1 | 220.5 | 255.7    | 249.1 | 201.7 | 282.2 | 273.4 | 293.2       | 284.4 | 319.7 | 286.6 | 354.9 | 282.2                                                                                          | 59.1  |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 65.6                                                                                                      | - | -        | - | - | 169.8       | 224.9 | 220.5 | 227.1 | 220.5 | 253.5    | 249.1 | 179.7 | 282.2 | 273.4 | 293.2       | 277.8 | 319.7 | 277.8 | 354.9 | 273.4                                                                                          | 65.6  |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 72.2                                                                                                      | - | -        | - | - | 153.2       | 223.8 | 220.5 | 226.0 | 220.5 | 253.5    | 240.3 | 161.5 | 282.2 | 271.2 | 293.2       | 271.2 | 319.7 | 271.2 | 354.9 | 264.6                                                                                          | 72.2  |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 78.7                                                                                                      | - | -        | - | - | 136.7       | 222.7 | 220.5 | 224.9 | 220.5 | 253.5    | 233.7 | 143.3 | 282.2 | 262.4 | 293.2       | 262.4 | 319.7 | 262.4 | 348.3 | 255.7                                                                                          | 78.7  |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 85.3                                                                                                      | - | -        | - | - | 124.0       | 222.7 | 220.5 | 223.8 | 220.5 | 253.5    | 227.1 | 130.1 | 282.2 | 255.7 | 292.1       | 255.7 | 318.6 | 255.7 | 336.2 | 249.1                                                                                          | 85.3  |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 91.9                                                                                                      | - | -        | - | - | 111.3       | 222.7 | 219.4 | 222.7 | 219.4 | 253.5    | 220.5 | 116.8 | 282.2 | 249.1 | 291.0       | 249.1 | 317.5 | 249.1 | 324.1 | 242.5                                                                                          | 91.9  |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 98.4                                                                                                      | - | -        | - | - | 101.1       | 221.6 | 218.3 | 222.7 | 218.3 | 252.4    | 215.0 | 105.9 | 281.1 | 242.5 | 291.0       | 242.5 | 313.1 | 242.5 | 314.2 | 235.9                                                                                          | 98.4  |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 111.5                                                                                                     | - | -        | - | - | 82.6        | 218.8 | 215.3 | 221.6 | 214.6 | 249.1    | 203.9 | 86.1  | 278.9 | 230.8 | 288.8       | 230.8 | 299.8 | 230.8 | 294.3 | 223.8                                                                                          | 111.5 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 124.7                                                                                                     | - | -        | - | - | 67.7        | 217.2 | 212.4 | 219.0 | 211.3 | 239.6    | 194.0 | 70.1  | 272.6 | 220.1 | 280.0       | 220.1 | 282.9 | 220.1 | 276.7 | 213.3                                                                                          | 124.7 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 137.8                                                                                                     | - | -        | - | - | 54.5        | 215.0 | 209.4 | 216.1 | 208.3 | 224.9    | 185.2 | 56.0  | 266.8 | 210.5 | 266.8       | 210.5 | 266.8 | 210.5 | 261.6 | 203.9                                                                                          | 137.8 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 150.9                                                                                                     | - | -        | - | - | 44.2        | 211.3 | 205.8 | 211.6 | 203.9 | 214.6    | 177.1 | 45.0  | 252.1 | 201.7 | 253.5       | 201.7 | 253.5 | 201.7 | 246.9 | 195.1                                                                                          | 150.9 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 164.0                                                                                                     | - | -        | - | - | 34.8        | 205.4 | 199.9 | 203.9 | 197.3 | 204.7    | 169.4 | 35.1  | 241.8 | 193.6 | 241.8       | 193.6 | 241.8 | 193.6 | 235.2 | 187.0                                                                                          | 164.0 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 177.2                                                                                                     | - | -        | - | - | 26.5        | 201.7 | 196.2 | 199.5 | 192.9 | 195.1    | 162.0 | 26.2  | 231.5 | 186.3 | 231.5       | 186.3 | 231.5 | 186.3 | 224.1 | 179.7                                                                                          | 177.2 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 190.3                                                                                                     | - | -        | - | - | 18.8        | 195.1 | 190.3 | 192.9 | 184.5 | 186.3    | 156.5 | 18.4  | 221.2 | 179.7 | 221.2       | 179.7 | 221.2 | 179.7 | 213.8 | 173.1                                                                                          | 190.3 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 203.4                                                                                                     | - | -        | - | - | 11.6        | 189.2 | 186.3 | 188.5 | 178.9 | 178.6    | 150.6 | 10.7  | 211.6 | 173.6 | 211.6       | 173.4 | 212.0 | 173.4 | 205.0 | 166.4                                                                                          | 203.4 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 206.7                                                                                                     | - | -        | - | - | 9.9         | 188.5 | 185.2 | 185.2 | 177.5 | 176.9    | 149.4 | 8.8   | 209.4 | 172.2 | 209.7       | 172.0 | 210.0 | 172.0 | 202.8 | 165.3                                                                                          | 206.7 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 210.0                                                                                                     | - | -        | - | - | 8.2         | 187.4 | 181.5 | 184.1 | 176.0 | 175.3    | 148.1 | -     | 207.6 | 170.9 | 207.8       | 170.5 | 208.0 | 170.5 | 200.6 | 164.2                                                                                          | 210.0 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 216.5                                                                                                     | - | -        | - | - | -           | 185.2 | 177.5 | 181.9 | 173.1 | 172.0    | 145.5 | -     | 203.9 | 167.6 | 203.9       | 167.6 | 203.9 | 167.6 | 196.9 | 161.7                                                                                          | 216.5 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 229.7                                                                                                     | - | -        | - | - | -           | 178.6 | 171.6 | 174.5 | 166.8 | 165.3    | 141.1 | -     | 196.6 | 162.4 | 196.6       | 162.4 | 196.6 | 162.4 | 189.6 | 156.5                                                                                          | 229.7 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 242.8                                                                                                     | - | -        | - | - | -           | 172.0 | 166.4 | 169.0 | 160.2 | 159.1    | 136.7 | -     | 187.4 | 157.6 | 187.0       | 157.6 | 185.6 | 157.6 | 180.8 | 151.4                                                                                          | 242.8 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 255.9                                                                                                     | - | -        | - | - | -           | 163.1 | 162.0 | 163.1 | 156.5 | 153.2    | 132.3 | -     | 176.4 | 153.2 | 175.3       | 153.2 | 170.9 | 153.2 | 169.0 | 147.0                                                                                          | 255.9 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 269.0                                                                                                     | - | -        | - | - | -           | 151.4 | 151.8 | 151.4 | 149.2 | 143.7    | 128.6 | -     | 163.1 | 149.5 | 162.0       | 149.5 | 157.6 | 149.5 | 154.3 | 143.3                                                                                          | 269.0 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 282.2                                                                                                     | - | -        | - | - | -           | 140.4 | 141.5 | 140.4 | 140.4 | 133.2    | 125.0 | -     | 151.0 | 145.5 | 149.9       | 145.1 | 145.5 | 145.5 | 142.2 | 139.8                                                                                          | 282.2 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 295.3                                                                                                     | - | -        | - | - | -           | 130.1 | 131.2 | 130.1 | 130.1 | 123.5    | 122.4 | -     | 140.0 | 141.1 | 138.9       | 140.0 | 134.5 | 134.5 | 130.4 | 132.3                                                                                          | 295.3 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 308.4                                                                                                     | - | -        | - | - | -           | 121.3 | 121.8 | 121.3 | 121.3 | 114.1    | 113.4 | -     | 130.5 | 130.6 | 129.3       | 130.5 | 124.2 | 124.9 | 120.2 | 121.3                                                                                          | 308.4 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 321.5                                                                                                     | - | -        | - | - | -           | 113.0 | 113.8 | 112.9 | 113.0 | 105.3    | 104.4 | -     | 120.5 | 120.9 | 119.8       | 120.5 | 114.6 | 115.0 | 110.3 | 110.2                                                                                          | 321.5 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 334.6                                                                                                     | - | -        | - | - | -           | 105.2 | 105.6 | 104.9 | 105.4 | 97.2     | 95.9  | -     | 110.2 | 111.3 | 110.2       | 110.2 | 105.6 | 105.8 | 101.6 | 102.1                                                                                          | 334.6 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 347.8                                                                                                     | - | -        | - | - | -           | 98.0  | 98.4  | 97.7  | 98.1  | 90.0     | 88.1  | -     | 102.4 | 102.9 | 101.9       | 102.4 | 97.1  | 97.4  | 92.8  | 93.3                                                                                           | 347.8 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 360.9                                                                                                     | - | -        | - | - | -           | 91.2  | 90.5  | 91.2  | 91.4  | 82.9     | 80.5  | -     | 94.6  | 95.2  | 94.0        | 94.8  | 88.8  | 89.6  | 85.0  | 85.2                                                                                           | 360.9 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 374.0                                                                                                     | - | -        | - | - | -           | 84.9  | 82.0  | 84.9  | 85.1  | 76.1     | 73.9  | -     | 87.1  | 88.2  | 86.6        | 87.7  | 81.8  | 82.7  | 77.6  | 77.9                                                                                           | 374.0 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 387.1                                                                                                     | - | -        | - | - | -           | 76.9  | 71.7  | 79.2  | 79.1  | 69.9     | 67.8  | -     | 80.8  | 82.2  | 80.4        | 81.8  | 75.6  | 77.1  | 70.5  | 71.0                                                                                           | 387.1 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 397.0                                                                                                     | - | -        | - | - | -           | 69.2  | 45.4  | 75.3  | 74.7  | 65.5     | 63.5  | -     | 76.8  | 78.3  | 76.1        | 77.8  | 71.3  | 73.2  | 65.9  | 66.4                                                                                           | 397.0 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 400.3                                                                                                     | - | -        | - | - | -           | 66.3  | -     | 74.0  | -     | 64.2     | -     | -     | 75.5  | -     | 74.9        | -     | 70.2  | -     | 64.4  | -                                                                                              | 400.3 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |
| 410.1                                                                                                     | - | -        | - | - | -           | 57.5  | -     | 70.3  | -     | 60.2     | -     | -     | 71.7  | -     | 71.2        | -     | 66.6  | -     | 60.2  | -                                                                                              | 410.1 |  |  |                                                                                           |             |  |  |                                                                                               |  |           |  |      |  |            |           |  |  |  |  |     |  |  |  |  |



|      |            |            |            |            |            |            |            |
|------|------------|------------|------------|------------|------------|------------|------------|
| 0 lb | 143,300 lb | 209,500 lb | 275,600 lb | 363,800 lb | 452,000 lb | 584,300 lb | 716,600 lb |
|------|------------|------------|------------|------------|------------|------------|------------|

LSL+LF\_2 – LSL+LF\_6:  36.1 ft – 62.3 ft

LSL+LF\_8 – LSL+LF\_12:  36.1 ft – 68.9 ft

LSL+LF\_14:  42.7 ft – 68.9 ft

**LSL+LF\_14:**  496,100 lb +  110,200 lb

|  363,800 lb +  110,200 lb |       |  36.1-68.9 ft |       |  27.6 ft |          |  32.2 ft/s |       | 360°        |       | ASME B30.5 |       |          |       |             |           |       |           |       |           |                                                                                     |   |     |   |                                                                                     |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------|-------|-------------|-------|------------|-------|----------|-------|-------------|-----------|-------|-----------|-------|-----------|-------------------------------------------------------------------------------------|---|-----|---|-------------------------------------------------------------------------------------|--|
|                                                                                                            |       | 433.1 ft                                                                                       |       |                                                                                           |          |                                                                                               |       |             |       |            |       |          |       |             |           |       |           |       |           |  |   |     |   |                                                                                     |  |
|                                                                                                                                                                                             |       | LSL+LF_2                                                                                       |       |                                                                                           | LSL+LF_3 |                                                                                               |       | LSL+LF_4    |       | LSL+LF_6   |       | LSL+LF_8 |       |             | LSL+LF_10 |       | LSL+LF_12 |       | LSL+LF_14 |                                                                                     |   |     |   |                                                                                     |  |
|                                                                                                            |       | 39.4 ft                                                                                        |       |                                                                                           |          |                                                                                               |       |             |       |            |       |          |       |             |           |       |           |       |           |                                                                                     |   |     |   |                                                                                     |  |
|                                                                                                            |       | 0 lb                                                                                           |       | 0-716.6 klb                                                                               |          | 0 lb                                                                                          |       | 0-716.6 klb |       |            |       | 0 lb     |       | 0-716.6 klb |           |       |           |       |           |                                                                                     |   |     |   |                                                                                     |  |
|                                                                                                            |       | 15°                                                                                            |       | 20°                                                                                       |          | 30°                                                                                           |       | 15°         |       | 20°        |       | 15°      |       | 20°         |           | 15°   |           | 20°   |           | 15°                                                                                 |   | 20° |   |  |  |
| ft                                                                                                                                                                                          |       | 1,000 lb                                                                                       |       |                                                                                           |          |                                                                                               |       |             |       |            |       |          |       |             |           |       |           |       |           |                                                                                     |   | ft  |   |                                                                                     |  |
| 55.8                                                                                                                                                                                        | 185.2 | 191.8                                                                                          | -     | -                                                                                         | -        | -                                                                                             | -     | -           | -     | -          | -     | -        | -     | -           | -         | -     | -         | -     | -         | -                                                                                   | - | -   | - | 55.8                                                                                |  |
| 59.1                                                                                                                                                                                        | 185.2 | 190.7                                                                                          | 187.4 | -                                                                                         | 186.3    | 217.2                                                                                         | 212.7 | 218.3       | 212.7 | 240.3      | 235.9 | 197.3    | 271.2 | -           | 280.0     | -     | 308.6     | -     | 343.9     | -                                                                                   | - | -   | - | 59.1                                                                                |  |
| 62.3                                                                                                                                                                                        | 176.9 | 190.7                                                                                          | 186.8 | -                                                                                         | 176.4    | 216.6                                                                                         | 212.2 | 217.7       | 212.7 | 240.3      | 235.9 | 186.3    | 271.2 | 262.4       | 280.0     | 273.4 | 308.6     | 284.4 | 343.9     | 277.8                                                                               | - | -   | - | 62.3                                                                                |  |
| 65.6                                                                                                                                                                                        | 169.8 | 190.7                                                                                          | 186.3 | 169.8                                                                                     | 166.4    | 216.1                                                                                         | 211.6 | 217.2       | 212.7 | 240.3      | 235.9 | 175.3    | 271.2 | 262.4       | 280.0     | 273.4 | 308.6     | 280.0 | 343.9     | 273.4                                                                               | - | -   | - | 65.6                                                                                |  |
| 72.2                                                                                                                                                                                        | 152.1 | 189.6                                                                                          | 185.2 | 168.7                                                                                     | 149.9    | 215.5                                                                                         | 211.6 | 216.6       | 211.6 | 240.3      | 235.9 | 157.6    | 271.2 | 262.4       | 280.0     | 271.2 | 308.6     | 271.2 | 343.9     | 264.6                                                                               | - | -   | - | 72.2                                                                                |  |
| 78.7                                                                                                                                                                                        | 136.7 | 188.5                                                                                          | 185.2 | 168.7                                                                                     | 133.4    | 215.0                                                                                         | 210.5 | 216.1       | 210.5 | 240.3      | 233.7 | 140.0    | 271.2 | 262.4       | 280.0     | 264.6 | 308.6     | 264.6 | 343.9     | 257.9                                                                               | - | -   | - | 78.7                                                                                |  |
| 85.3                                                                                                                                                                                        | 123.5 | 187.4                                                                                          | 184.1 | 165.3                                                                                     | 120.9    | 214.4                                                                                         | 209.4 | 215.0       | 209.4 | 239.2      | 227.1 | 126.8    | 269.0 | 255.7       | 280.0     | 255.7 | 306.4     | 255.7 | 335.1     | 250.2                                                                               | - | -   | - | 85.3                                                                                |  |
| 91.9                                                                                                                                                                                        | 111.3 | 185.2                                                                                          | 181.9 | 162.0                                                                                     | 108.5    | 213.8                                                                                         | 208.3 | 215.0       | 209.4 | 238.1      | 220.5 | 113.5    | 269.0 | 249.1       | 280.0     | 249.1 | 304.2     | 249.1 | 326.3     | 242.5                                                                               | - | -   | - | 91.9                                                                                |  |
| 98.4                                                                                                                                                                                        | 101.4 | 184.1                                                                                          | 180.8 | 158.7                                                                                     | 98.3     | 212.7                                                                                         | 207.2 | 213.8       | 208.3 | 238.1      | 216.1 | 103.0    | 267.9 | 242.5       | 280.0     | 242.5 | 304.2     | 242.5 | 316.4     | 237.0                                                                               | - | -   | - | 98.4                                                                                |  |
| 111.5                                                                                                                                                                                       | 83.9  | 181.9                                                                                          | 178.6 | 152.9                                                                                     | 80.0     | 210.0                                                                                         | 205.0 | 211.6       | 205.4 | 237.0      | 205.0 | 83.6     | 265.7 | 232.2       | 277.8     | 232.2 | 298.7     | 232.2 | 296.5     | 226.0                                                                               | - | -   | - | 111.5                                                                               |  |
| 124.7                                                                                                                                                                                       | 68.6  | 180.0                                                                                          | 176.4 | 147.3                                                                                     | 65.3     | 206.9                                                                                         | 202.1 | 209.1       | 202.5 | 233.0      | 195.1 | 67.8     | 262.4 | 221.9       | 271.2     | 221.9 | 285.1     | 221.9 | 278.9     | 215.0                                                                               | - | -   | - | 124.7                                                                               |  |
| 137.8                                                                                                                                                                                       | 55.3  | 178.6                                                                                          | 174.2 | 142.2                                                                                     | 52.2     | 203.9                                                                                         | 198.4 | 206.1       | 199.5 | 227.1      | 186.3 | 53.8     | 257.9 | 211.6       | 262.4     | 211.6 | 269.0     | 211.6 | 263.8     | 205.0                                                                               | - | -   | - | 137.8                                                                               |  |
| 150.9                                                                                                                                                                                       | 45.0  | 174.9                                                                                          | 170.5 | 137.8                                                                                     | 42.0     | 199.5                                                                                         | 193.3 | 202.5       | 195.8 | 216.8      | 178.2 | 42.8     | 247.7 | 203.6       | 253.5     | 203.6 | 255.7     | 203.6 | 249.1     | 196.2                                                                               | - | -   | - | 150.9                                                                               |  |
| 164.0                                                                                                                                                                                       | 35.7  | 171.2                                                                                          | 167.2 | 133.4                                                                                     | 32.7     | 194.4                                                                                         | 188.5 | 196.6       | 189.6 | 206.9      | 170.9 | 32.8     | 239.6 | 195.5       | 242.5     | 195.5 | 244.0     | 195.5 | 237.4     | 188.9                                                                               | - | -   | - | 164.0                                                                               |  |
| 177.2                                                                                                                                                                                       | 27.3  | 167.6                                                                                          | 164.2 | 129.0                                                                                     | 24.5     | 188.5                                                                                         | 184.1 | 192.9       | 185.2 | 197.3      | 164.2 | 24.0     | 233.7 | 187.4       | 233.7     | 187.4 | 233.7     | 187.4 | 226.7     | 181.5                                                                               | - | -   | - | 177.2                                                                               |  |
| 190.3                                                                                                                                                                                       | 19.8  | 163.9                                                                                          | 160.6 | 126.0                                                                                     | 17.1     | 182.6                                                                                         | 175.6 | 186.3       | 178.6 | 188.5      | 157.6 | 16.5     | 223.4 | 180.8       | 223.4     | 180.8 | 223.1     | 181.2 | 217.2     | 174.2                                                                               | - | -   | - | 190.3                                                                               |  |
| 203.4                                                                                                                                                                                       | 12.6  | 157.6                                                                                          | 154.3 | 122.9                                                                                     | 9.9      | 177.5                                                                                         | 170.9 | 180.8       | 174.2 | 180.4      | 151.8 | 9.0      | 215.0 | 175.3       | 215.0     | 175.3 | 215.0     | 174.9 | 207.6     | 168.3                                                                               | - | -   | - | 203.4                                                                               |  |
| 206.7                                                                                                                                                                                       | 10.8  | 156.5                                                                                          | 153.2 | 122.1                                                                                     | 8.2      | 176.1                                                                                         | 167.0 | 178.9       | 173.1 | 178.6      | 150.5 | -        | 212.7 | 173.9       | 212.7     | 173.9 | 212.7     | 173.6 | 205.8     | 166.8                                                                               | - | -   | - | 206.7                                                                               |  |
| 210.0                                                                                                                                                                                       | 9.0   | 155.4                                                                                          | 152.1 | 121.3                                                                                     | -        | 174.7                                                                                         | 164.8 | 178.0       | 172.0 | 176.7      | 149.2 | -        | 210.5 | 172.5       | 210.5     | 172.5 | 210.5     | 172.3 | 203.9     | 165.3                                                                               | - | -   | - | 210.0                                                                               |  |
| 216.5                                                                                                                                                                                       | -     | 153.2                                                                                          | 149.9 | 119.0                                                                                     | -        | 172.0                                                                                         | 162.0 | 176.4       | 169.8 | 173.1      | 146.6 | -        | 206.1 | 169.8       | 206.1     | 169.8 | 206.1     | 169.8 | 199.9     | 162.8                                                                               | - | -   | - | 216.5                                                                               |  |
| 229.7                                                                                                                                                                                       | -     | 147.3                                                                                          | 143.3 | 116.8                                                                                     | -        | 164.6                                                                                         | 155.4 | 169.8       | 162.0 | 167.2      | 142.2 | -        | 198.8 | 164.6       | 198.8     | 164.6 | 196.6     | 164.6 | 191.8     | 157.6                                                                               | - | -   | - | 229.7                                                                               |  |
| 242.8                                                                                                                                                                                       | -     | 141.8                                                                                          | 138.9 | 114.3                                                                                     | -        | 157.6                                                                                         | 150.6 | 164.2       | 155.8 | 161.3      | 137.8 | -        | 188.1 | 159.5       | 188.1     | 159.5 | 184.1     | 159.5 | 180.0     | 153.2                                                                               | - | -   | - | 242.8                                                                               |  |
| 255.9                                                                                                                                                                                       | -     | 137.8                                                                                          | 134.5 | 111.3                                                                                     | -        | 153.2                                                                                         | 145.5 | 159.8       | 152.1 | 155.4      | 133.4 | -        | 174.2 | 154.3       | 174.2     | 154.3 | 168.7     | 154.3 | 166.8     | 148.8                                                                               | - | -   | - | 255.9                                                                               |  |
| 269.0                                                                                                                                                                                       | -     | 134.1                                                                                          | 129.7 | 109.6                                                                                     | -        | 147.3                                                                                         | 140.0 | 148.8       | 147.0 | 143.1      | 129.7 | -        | 161.7 | 150.6       | 160.9     | 150.6 | 156.2     | 150.6 | 152.1     | 144.4                                                                               | - | -   | - | 269.0                                                                               |  |
| 282.2                                                                                                                                                                                       | -     | 131.2                                                                                          | 126.4 | 107.8                                                                                     | -        | 139.3                                                                                         | 134.5 | 138.2       | 139.3 | 131.5      | 125.3 | -        | 149.9 | 145.5       | 149.0     | 145.5 | 144.0     | 144.8 | 139.6     | 141.1                                                                               | - | -   | - | 282.2                                                                               |  |
| 295.3                                                                                                                                                                                       | -     | 129.0                                                                                          | 123.5 | 106.0                                                                                     | -        | 129.0                                                                                         | 127.9 | 127.9       | 129.0 | 121.3      | 120.2 | -        | 138.9 | 138.9       | 137.8     | 138.9 | 133.4     | 133.4 | 128.2     | 130.8                                                                               | - | -   | - | 295.3                                                                               |  |
| 308.4                                                                                                                                                                                       | -     | 121.8                                                                                          | 120.9 | 104.4                                                                                     | -        | 120.2                                                                                         | 117.7 | 119.0       | 120.2 | 111.9      | 111.2 | -        | 128.6 | 128.6       | 128.2     | 128.6 | 123.1     | 123.1 | 117.9     | 119.0                                                                               | - | -   | - | 308.4                                                                               |  |
| 321.5                                                                                                                                                                                       | -     | 113.8                                                                                          | 114.0 | 103.0                                                                                     | -        | 111.6                                                                                         | 107.1 | 110.7       | 111.6 | 103.3      | 102.4 | -        | 118.6 | 118.8       | 118.5     | 118.6 | 113.4     | 113.4 | 108.0     | 109.0                                                                               | - | -   | - | 321.5                                                                               |  |
| 334.6                                                                                                                                                                                       | -     | 105.6                                                                                          | 106.0 | 101.6                                                                                     | -        | 103.4                                                                                         | 96.6  | 103.0       | 103.4 | 95.2       | 93.7  | -        | 108.9 | 109.3       | 108.7     | 108.9 | 103.8     | 103.8 | 99.3      | 100.1                                                                               | - | -   | - | 334.6                                                                               |  |
| 347.8                                                                                                                                                                                       | -     | 98.4                                                                                           | 98.8  | 97.8                                                                                      | -        | 95.2                                                                                          | 88.8  | 95.7        | 96.1  | 88.0       | 86.1  | -        | 100.2 | 100.7       | 100.0     | 100.4 | 95.2      | 95.5  | 90.6      | 91.3                                                                                | - | -   | - | 347.8                                                                               |  |
| 360.9                                                                                                                                                                                       | -     | 91.6                                                                                           | 92.1  | 59.1                                                                                      | -        | 85.4                                                                                          | 75.5  | 89.0        | 89.4  | 81.0       | 78.7  | -        | 92.2  | 92.9        | 91.9      | 92.5  | 87.0      | 87.3  | 82.8      | 83.3                                                                                | - | -   | - | 360.9                                                                               |  |
| 374.0                                                                                                                                                                                       | -     | 85.3                                                                                           | 85.8  | -                                                                                         | -        | 74.1                                                                                          | 64.6  | 82.7        | 82.9  | 74.1       | 71.7  | -        | 84.9  | 85.5        | 84.4      | 85.3  | 79.6      | 80.5  | 75.5      | 75.8                                                                                | - | -   | - | 374.0                                                                               |  |
| 387.1                                                                                                                                                                                       | -     | 79.7                                                                                           | 80.0  | -                                                                                         | -        | 62.7                                                                                          | 53.9  | 77.1        | 76.7  | 67.8       | 65.6  | -        | 78.4  | 79.5        | 78.1      | 79.3  | 73.3      | 74.6  | 68.6      | 68.8                                                                                | - | -   | - | 387.1                                                                               |  |
| 400.3                                                                                                                                                                                       | -     | 74.4                                                                                           | 74.6  | -                                                                                         | -        | 51.4                                                                                          | 43.0  | 71.9        | 70.9  | 61.9       | 59.7  | -        | 72.6  | 74.0        | 72.4      | 73.8  | 67.5      | 69.2  | 62.3      | 62.6                                                                                | - | -   | - | 400.3                                                                               |  |
| 403.5                                                                                                                                                                                       | -     | 73.2                                                                                           | 73.4  | -                                                                                         | -        | 48.6                                                                                          | 40.1  | 70.7        | 69.5  | 60.5       | 58.4  | -        | 71.3  | 72.8        | 71.1      | 72.5  | 66.3      | 67.9  | 60.8      | 61.1                                                                                | - | -   | - | 403.5                                                                               |  |
| 406.8                                                                                                                                                                                       | -     | 71.9                                                                                           | 72.1  | -                                                                                         | -        | 45.8                                                                                          | -     | 69.4        | 68.1  | 59.2       | -     | -        | 70.0  | -           | 69.8      | -     | 65.0      | -     | 59.3      | -                                                                                   | - | -   | - | 406.8                                                                               |  |
| 410.1                                                                                                                                                                                       | -     | 70.7                                                                                           | 32.0  | -                                                                                         | -        | 43.0                                                                                          | -     | 68.2        | -     | 57.8       | -     | -        | 68.7  | -           | 68.5      | -     | 63.7      | -     | 57.9      | -                                                                                   | - | -   | - | 410.1                                                                               |  |
| 413.4                                                                                                                                                                                       | -     | 69.4                                                                                           | -     | -                                                                                         | -        | 40.1                                                                                          | -     | 67.0        | -     | 56.4       | -     | -        | 67.5  | -           | 67.2      | -     | 62.6      | -     | 56.5      | -                                                                                   | - | -   | - | 413.4                                                                               |  |
| 419.9                                                                                                                                                                                       | -     | 67.2                                                                                           | -     | -                                                                                         | -        | 34.4                                                                                          | -     | 64.6        | -     | 54.0       | -     | -        | 65.3  | -           | 65.0      | -     | 60.4      | -     | 53.8      | -                                                                                   | - | -   | - | 419.9                                                                               |  |

| <div><div><div><div></div><div></div><div></div></div><div>363,800 lb + <div><div></div><div></div><div></div></div>110,200 lb</div><div><div><div></div><div></div><div></div></div>36.1-68.9 ft</div><div><div><div></div><div></div><div></div></div>27.6 ft</div><div><div><div></div><div></div><div></div></div>32.2 ft/s</div><div>360°</div><div>ASME B30.5</div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |   |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <div><div><div><div></div><div></div><div></div></div><div>442.9 ft</div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |   |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| <div><div><div><div></div><div></div><div></div></div><div>LSL+LF_2</div></div><div><div><div></div><div></div><div></div></div>LSL+LF_3</div><div><div><div></div><div></div><div></div></div>LSL+LF_4</div><div><div><div></div><div></div><div></div></div>LSL+LF_6</div><div><div><div></div><div></div><div></div></div>LSL+LF_8</div><div><div><div></div><div></div><div></div></div>LSL+LF_10</div><div><div><div></div><div></div><div></div></div>LSL+LF_12</div><div><div><div></div><div></div><div></div></div>LSL+LF_14</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| <div><div><div><div></div><div></div><div></div></div><div>39.4 ft</div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| <div><div><div><div></div><div></div><div></div></div><div>0 lb</div></div><div><div><div></div><div></div><div></div></div>0-716.6 klb</div><div><div><div></div><div></div><div></div></div>0 lb</div><div><div><div></div><div></div><div></div></div>0-716.6 klb</div><div><div><div></div><div></div><div></div></div>0 lb</div><div><div><div></div><div></div><div></div></div>0-716.6 klb</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |   |   |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| <div><div><div><div></div><div></div><div></div></div><div>15°</div></div><div><div><div></div><div></div><div></div></div>20°</div><div><div><div></div><div></div><div></div></div>30°</div><div><div><div></div><div></div><div></div></div>15°</div><div><div><div></div><div></div><div></div></div>20°</div><div><div><div></div><div></div><div></div></div>15°</div><div><div><div></div><div></div><div></div></div>20°</div><div><div><div></div><div></div><div></div></div>15°</div><div><div><div></div><div></div><div></div></div>20°</div><div><div><div></div><div></div><div></div></div>15°</div><div><div><div></div><div></div><div></div></div>20°</div><div><div><div></div><div></div><div></div></div>15°</div><div><div><div></div><div></div><div></div></div>20°</div><div><div><div></div><div></div><div></div></div>15°</div><div><div><div></div><div></div><div></div></div>20°</div><div><div><div></div><div></div><div></div></div>15°</div><div><div><div></div><div></div><div></div></div>20°</div></div> |   |   |   |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| <div><div><div><div></div><div></div><div></div></div><div>ft</div></div><div><div><div></div><div></div><div></div></div>1,000 lb</div><div><div><div></div><div></div><div></div></div>ft</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | - | - | - | -     | -     | -     | 208.3 | -     | 227.1 | -     | 191.8 | 257.9 | -     | 269.0 | -     | 295.4 | -     | 326.3 | -     | 59.1  |
| 62.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | - | - | - | 170.9 | 206.1 | 203.9 | 208.3 | 202.8 | 227.1 | 222.7 | 181.3 | 257.9 | 251.3 | 269.0 | 262.4 | 295.4 | 284.4 | 326.3 | 280.0 | 62.3  |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | - | - | - | 162.0 | 206.1 | 203.9 | 208.3 | 202.8 | 227.1 | 222.7 | 170.9 | 257.9 | 251.3 | 269.0 | 262.4 | 295.4 | 280.0 | 326.3 | 275.6 | 65.6  |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | - | - | - | 145.5 | 206.1 | 202.8 | 207.8 | 201.7 | 226.0 | 222.7 | 153.8 | 257.9 | 251.3 | 269.0 | 262.4 | 295.4 | 273.4 | 326.3 | 266.8 | 72.2  |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | - | - | - | 129.0 | 206.1 | 202.8 | 207.2 | 201.7 | 224.9 | 222.7 | 136.7 | 257.9 | 251.3 | 269.0 | 262.4 | 295.4 | 264.6 | 326.3 | 257.9 | 78.7  |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | - | - | - | 116.8 | 205.0 | 201.7 | 206.7 | 200.6 | 224.9 | 222.7 | 123.3 | 256.8 | 251.3 | 267.9 | 257.9 | 294.3 | 257.9 | 326.3 | 251.3 | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | - | - | - | 104.7 | 203.9 | 200.6 | 206.1 | 199.5 | 224.9 | 222.7 | 110.0 | 255.7 | 251.3 | 266.8 | 251.3 | 293.2 | 251.3 | 326.3 | 244.7 | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | - | - | - | 94.7  | 202.8 | 199.5 | 205.0 | 199.5 | 223.8 | 217.2 | 99.3  | 255.7 | 244.7 | 266.8 | 244.7 | 293.2 | 244.7 | 317.5 | 238.1 | 98.4  |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | 76.6  | 200.6 | 197.3 | 202.8 | 197.3 | 221.6 | 206.9 | 79.9  | 253.5 | 233.0 | 264.6 | 233.0 | 291.0 | 233.0 | 299.8 | 226.0 | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | 62.0  | 198.8 | 195.1 | 201.0 | 195.5 | 220.1 | 196.9 | 64.3  | 249.9 | 222.7 | 260.1 | 222.7 | 285.1 | 222.7 | 282.2 | 216.1 | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | 48.9  | 197.3 | 192.9 | 199.5 | 194.0 | 219.4 | 187.4 | 50.5  | 246.9 | 213.8 | 255.7 | 213.8 | 273.4 | 213.8 | 266.0 | 207.2 | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | 38.8  | 193.6 | 190.0 | 196.6 | 190.3 | 215.0 | 179.3 | 39.6  | 237.4 | 205.0 | 246.9 | 205.0 | 260.1 | 205.0 | 251.3 | 198.4 | 150.9 |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | 29.6  | 190.0 | 186.7 | 192.2 | 185.6 | 208.3 | 172.0 | 29.8  | 231.5 | 196.9 | 239.6 | 196.9 | 247.7 | 196.9 | 239.6 | 190.3 | 164.0 |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | 21.4  | 186.3 | 183.0 | 188.5 | 181.9 | 199.5 | 165.3 | 20.9  | 227.1 | 189.6 | 233.7 | 189.6 | 235.9 | 189.6 | 228.9 | 183.0 | 177.2 |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | 14.5  | 181.7 | 177.1 | 183.4 | 176.7 | 190.7 | 159.5 | 13.7  | 218.3 | 183.0 | 224.9 | 183.0 | 224.9 | 183.0 | 219.4 | 176.4 | 190.3 |
| 200.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | 9.3   | 177.3 | 171.6 | 179.9 | 174.2 | 184.5 | 155.1 | 8.4   | 213.5 | 178.2 | 218.4 | 178.2 | 218.4 | 178.2 | 212.7 | 171.7 | 200.1 |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | -     | 176.0 | 170.0 | 177.8 | 172.6 | 182.6 | 153.6 | -     | 211.4 | 176.7 | 216.4 | 176.7 | 216.4 | 176.7 | 210.5 | 170.3 | 203.4 |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | -     | 172.0 | 166.4 | 174.2 | 168.7 | 175.3 | 147.7 | -     | 206.1 | 170.9 | 208.3 | 170.9 | 208.3 | 170.9 | 202.1 | 164.6 | 216.5 |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | -     | 163.9 | 158.7 | 169.4 | 164.2 | 168.7 | 143.3 | -     | 198.0 | 165.7 | 198.8 | 165.7 | 195.8 | 165.7 | 194.0 | 158.7 | 229.7 |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | -     | 154.7 | 152.9 | 165.0 | 159.5 | 161.3 | 138.9 | -     | 186.7 | 160.9 | 186.7 | 160.9 | 181.9 | 160.9 | 177.8 | 154.3 | 242.8 |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | -     | 144.4 | 148.8 | 159.8 | 156.5 | 153.2 | 134.5 | -     | 172.0 | 156.5 | 172.0 | 156.5 | 166.4 | 156.5 | 162.8 | 149.9 | 255.9 |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | -     | 135.6 | 144.4 | 148.1 | 147.0 | 140.4 | 131.2 | -     | 159.5 | 152.1 | 158.7 | 152.1 | 154.1 | 152.1 | 148.8 | 145.5 | 269.0 |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | -     | 126.8 | 137.2 | 136.7 | 137.2 | 129.3 | 124.9 | -     | 147.7 | 146.1 | 146.2 | 146.2 | 141.8 | 142.2 | 136.2 | 138.3 | 282.2 |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | -     | 117.9 | 126.8 | 126.8 | 126.8 | 119.0 | 116.8 | -     | 136.7 | 136.7 | 135.6 | 135.6 | 130.1 | 131.2 | 124.6 | 126.4 | 295.3 |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | -     | 109.3 | 117.9 | 117.2 | 117.9 | 109.2 | 107.6 | -     | 125.7 | 125.7 | 124.6 | 125.3 | 120.2 | 119.7 | 113.5 | 114.6 | 308.4 |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | -     | 100.2 | 109.3 | 108.6 | 109.4 | 100.8 | 98.9  | -     | 115.2 | 115.2 | 114.6 | 115.1 | 109.9 | 109.9 | 104.6 | 105.5 | 321.5 |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | -     | 90.8  | 100.8 | 100.8 | 101.2 | 92.6  | 90.4  | -     | 105.8 | 106.0 | 105.2 | 105.4 | 100.3 | 100.3 | 95.8  | 96.6  | 334.6 |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | -     | 81.4  | 88.7  | 93.5  | 94.0  | 84.9  | 82.7  | -     | 97.2  | 97.5  | 96.5  | 96.9  | 91.5  | 91.7  | 87.3  | 88.0  | 347.8 |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | -     | 72.2  | 76.6  | 86.8  | 86.9  | 77.7  | 75.5  | -     | 88.8  | 89.4  | 88.2  | 88.6  | 83.5  | 83.8  | 79.5  | 80.0  | 360.9 |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | -     | 62.8  | 65.0  | 80.5  | 80.0  | 70.8  | 68.6  | -     | 81.6  | 82.0  | 80.9  | 81.6  | 75.8  | 76.5  | 72.1  | 72.4  | 374.0 |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | -     | 53.6  | 53.4  | 74.9  | 73.7  | 64.4  | 62.4  | -     | 75.0  | 75.8  | 74.4  | 75.4  | 69.4  | 70.3  | 65.0  | 65.5  | 387.1 |
| 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | -     | 44.3  | 41.0  | 69.6  | 67.8  | 58.7  | 56.7  | -     | 69.0  | 70.3  | 68.5  | 69.8  | 63.5  | 64.7  | 58.9  | 59.2  | 400.3 |
| 410.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | -     | 37.3  | 32.2  | 65.8  | 63.8  | 54.5  | 52.7  | -     | 65.0  | 66.5  | 64.4  | 66.1  | 59.5  | 61.2  | 54.4  | 54.7  | 410.1 |
| 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | -     | 34.8  | -     | 64.6  | 62.4  | 53.1  | 51.4  | -     | 63.7  | 65.3  | 63.1  | 64.8  | 58.2  | 60.0  | 53.0  | 53.4  | 413.4 |
| 426.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - | - | - | - | -     | 25.6  | -     | 60.2  | -     | 48.3  | -     | -     | 59.1  | -     | 58.6  | -     | 53.8  | -     | 47.4  | -     | 426.5 |



|  363,800 lb +  110,200 lb |       |  36.1-68.9 ft |       |  27.6 ft |          |  32.2 ft/s |       | 360°     |             | ASME B30.5 |          |       |       |          |       |       |             |       |       |                                                                                     |       |     |           |     |  |     |  |                                                                                     |  |    |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------|-------|----------|-------------|------------|----------|-------|-------|----------|-------|-------|-------------|-------|-------|-------------------------------------------------------------------------------------|-------|-----|-----------|-----|--|-----|--|-------------------------------------------------------------------------------------|--|----|--|
|                                                                                                            |       | 452.8 ft                                                                                       |       |                                                                                           |          |                                                                                               |       |          |             |            |          |       |       |          |       |       |             |       |       |  |       |     |           |     |  |     |  |                                                                                     |  |    |  |
|                                                                                                                                                                                             |       | LSL+LF_2                                                                                       |       |                                                                                           | LSL+LF_3 |                                                                                               |       | LSL+LF_4 |             |            | LSL+LF_6 |       |       | LSL+LF_8 |       |       | LSL+LF_10   |       |       | LSL+LF_12                                                                           |       |     | LSL+LF_14 |     |  |     |  |                                                                                     |  |    |  |
|                                                                                                            |       | 39.4 ft                                                                                        |       |                                                                                           |          |                                                                                               |       |          |             |            |          |       |       |          |       |       |             |       |       |                                                                                     |       |     |           |     |  |     |  |                                                                                     |  |    |  |
|                                                                                                            |       | 0 lb                                                                                           |       | 0-716.6 klb                                                                               |          |                                                                                               | 0 lb  |          | 0-716.6 klb |            |          |       |       |          | 0 lb  |       | 0-716.6 klb |       |       |                                                                                     |       |     |           |     |  |     |  |                                                                                     |  |    |  |
|                                                                                                            |       | 15°                                                                                            |       | 20°                                                                                       |          | 30°                                                                                           |       | 15°      |             | 20°        |          | 15°   |       | 20°      |       | 15°   |             | 20°   |       | 15°                                                                                 |       | 20° |           | 15° |  | 20° |  |  |  |    |  |
| ft                                                                                                                                                                                          |       | 1,000 lb                                                                                       |       |                                                                                           |          |                                                                                               |       |          |             |            |          |       |       |          |       |       |             |       |       |                                                                                     |       |     |           |     |  |     |  |                                                                                     |  | ft |  |
| 59.1                                                                                                                                                                                        | 160.9 | 165.3                                                                                          | -     | -                                                                                         | -        | -                                                                                             | -     | 196.2    | -           | 208.3      | -        | 187.4 | 244.7 | -        | 257.9 | -     | 277.8       | -     | 317.5 | -                                                                                   | 59.1  |     |           |     |  |     |  |                                                                                     |  |    |  |
| 62.3                                                                                                                                                                                        | 159.8 | 165.3                                                                                          | 162.0 | -                                                                                         | 172.0    | 179.7                                                                                         | 175.3 | 196.2    | 196.2       | 207.8      | 203.9    | 177.5 | 244.7 | 240.3    | 257.9 | 253.5 | 277.8       | 271.2 | 317.5 | 280.0                                                                               | 62.3  |     |           |     |  |     |  |                                                                                     |  |    |  |
| 65.6                                                                                                                                                                                        | 159.8 | 165.3                                                                                          | 160.9 | -                                                                                         | 162.0    | 179.7                                                                                         | 175.3 | 196.2    | 196.2       | 207.2      | 203.9    | 167.6 | 244.7 | 240.3    | 257.9 | 253.5 | 277.8       | 271.2 | 317.5 | 275.6                                                                               | 65.6  |     |           |     |  |     |  |                                                                                     |  |    |  |
| 68.9                                                                                                                                                                                        | 153.2 | 164.2                                                                                          | 160.4 | 149.9                                                                                     | 154.3    | 179.1                                                                                         | 174.7 | 196.2    | 196.2       | 207.2      | 203.9    | 159.0 | 244.2 | 240.3    | 257.9 | 253.5 | 277.8       | 271.2 | 317.5 | 271.2                                                                               | 68.9  |     |           |     |  |     |  |                                                                                     |  |    |  |
| 72.2                                                                                                                                                                                        | 147.7 | 163.1                                                                                          | 159.8 | 148.8                                                                                     | 146.6    | 178.6                                                                                         | 174.2 | 196.2    | 196.2       | 207.2      | 203.9    | 150.5 | 243.6 | 240.3    | 257.9 | 253.5 | 277.8       | 271.2 | 317.5 | 266.8                                                                               | 72.2  |     |           |     |  |     |  |                                                                                     |  |    |  |
| 78.7                                                                                                                                                                                        | 132.3 | 162.0                                                                                          | 158.7 | 148.8                                                                                     | 131.2    | 177.5                                                                                         | 173.1 | 196.2    | 196.2       | 207.2      | 202.8    | 133.4 | 242.5 | 240.3    | 257.9 | 253.5 | 277.8       | 266.8 | 317.5 | 260.1                                                                               | 78.7  |     |           |     |  |     |  |                                                                                     |  |    |  |
| 85.3                                                                                                                                                                                        | 120.2 | 162.0                                                                                          | 157.6 | 147.7                                                                                     | 118.8    | 176.4                                                                                         | 172.0 | 196.2    | 196.2       | 206.1      | 202.8    | 120.3 | 241.4 | 238.1    | 256.8 | 253.5 | 276.7       | 260.1 | 317.5 | 253.5                                                                               | 85.3  |     |           |     |  |     |  |                                                                                     |  |    |  |
| 91.9                                                                                                                                                                                        | 108.2 | 160.9                                                                                          | 157.6 | 147.7                                                                                     | 106.5    | 175.3                                                                                         | 170.9 | 196.2    | 196.2       | 205.0      | 201.7    | 107.1 | 240.3 | 238.1    | 255.7 | 251.3 | 275.6       | 253.5 | 317.5 | 246.9                                                                               | 91.9  |     |           |     |  |     |  |                                                                                     |  |    |  |
| 98.4                                                                                                                                                                                        | 97.9  | 159.8                                                                                          | 156.5 | 146.6                                                                                     | 96.7     | 173.6                                                                                         | 169.8 | 196.2    | 196.2       | 203.9      | 201.7    | 96.6  | 239.2 | 235.9    | 255.7 | 246.9 | 275.6       | 246.9 | 314.2 | 240.3                                                                               | 98.4  |     |           |     |  |     |  |                                                                                     |  |    |  |
| 111.5                                                                                                                                                                                       | 80.8  | 159.8                                                                                          | 153.6 | 145.1                                                                                     | 78.8     | 170.9                                                                                         | 167.6 | 196.2    | 195.5       | 201.7      | 198.8    | 77.4  | 237.0 | 231.5    | 253.5 | 235.2 | 274.5       | 235.2 | 302.0 | 228.2                                                                               | 111.5 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 124.7                                                                                                                                                                                       | 65.8  | 154.0                                                                                          | 151.0 | 143.3                                                                                     | 64.4     | 168.7                                                                                         | 165.0 | 196.2    | 194.4       | 199.5      | 194.4    | 61.9  | 234.4 | 224.5    | 249.9 | 224.5 | 271.2       | 224.5 | 284.4 | 217.7                                                                               | 124.7 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 137.8                                                                                                                                                                                       | 52.9  | 152.1                                                                                          | 148.8 | 141.1                                                                                     | 51.6     | 166.4                                                                                         | 162.0 | 196.2    | 192.9       | 197.3      | 188.5    | 48.1  | 231.5 | 215.0    | 246.9 | 215.0 | 266.8       | 215.0 | 269.0 | 208.3                                                                               | 137.8 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 150.9                                                                                                                                                                                       | 42.6  | 149.2                                                                                          | 145.9 | 138.2                                                                                     | 41.4     | 162.8                                                                                         | 159.1 | 193.3    | 189.2       | 193.6      | 180.4    | 37.3  | 227.1 | 206.1    | 239.6 | 206.1 | 255.0       | 206.1 | 255.7 | 199.5                                                                               | 150.9 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 164.0                                                                                                                                                                                       | 33.4  | 145.9                                                                                          | 142.9 | 134.8                                                                                     | 32.3     | 159.1                                                                                         | 155.8 | 189.2    | 185.9       | 189.6      | 173.1    | 27.6  | 222.7 | 198.0    | 230.8 | 198.0 | 245.4       | 198.0 | 242.5 | 191.4                                                                               | 164.0 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 177.2                                                                                                                                                                                       | 25.4  | 142.2                                                                                          | 140.0 | 131.2                                                                                     | 24.3     | 155.4                                                                                         | 152.1 | 185.2    | 183.0       | 185.2      | 166.4    | 19.0  | 218.3 | 190.7    | 224.9 | 190.7 | 238.1       | 190.7 | 230.8 | 184.1                                                                               | 177.2 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 190.3                                                                                                                                                                                       | 18.2  | 139.3                                                                                          | 137.1 | 127.5                                                                                     | 17.3     | 152.5                                                                                         | 149.2 | 181.9    | 177.3       | 179.7      | 160.6    | 11.8  | 213.8 | 184.5    | 220.5 | 184.5 | 227.1       | 184.1 | 220.5 | 177.5                                                                               | 190.3 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 196.9                                                                                                                                                                                       | 14.6  | 137.8                                                                                          | 135.6 | 125.7                                                                                     | 13.9     | 151.0                                                                                         | 147.7 | 178.6    | 176.4       | 177.5      | 157.6    | 8.2   | 211.6 | 180.8    | 218.3 | 180.8 | 222.7       | 180.8 | 216.4 | 174.8                                                                               | 196.9 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 203.4                                                                                                                                                                                       | 11.0  | 136.0                                                                                          | 134.5 | 124.2                                                                                     | 10.4     | 146.8                                                                                         | 144.8 | 175.3    | 170.1       | 174.2      | 155.1    | -     | 209.4 | 178.1    | 212.7 | 177.8 | 218.6       | 177.8 | 212.4 | 171.7                                                                               | 203.4 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 206.7                                                                                                                                                                                       | 9.3   | 135.4                                                                                          | 133.7 | 123.5                                                                                     | 8.6      | 145.9                                                                                         | 143.6 | 173.6    | 169.2       | 173.1      | 153.8    | -     | 208.3 | 176.6    | 211.6 | 176.4 | 216.6       | 176.4 | 210.4 | 170.2                                                                               | 206.7 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 216.5                                                                                                                                                                                       | -     | 133.4                                                                                          | 131.2 | 120.2                                                                                     | -        | 143.3                                                                                         | 141.1 | 170.9    | 166.4       | 169.8      | 149.9    | -     | 205.0 | 172.0    | 208.3 | 172.0 | 210.5       | 172.0 | 202.5 | 166.1                                                                               | 216.5 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 229.7                                                                                                                                                                                       | -     | 128.2                                                                                          | 126.0 | 117.9                                                                                     | -        | 138.5                                                                                         | 137.4 | 165.7    | 159.8       | 164.2      | 144.8    | -     | 194.7 | 166.8    | 196.6 | 166.8 | 197.3       | 166.8 | 190.7 | 160.9                                                                               | 229.7 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 242.8                                                                                                                                                                                       | -     | 123.8                                                                                          | 122.4 | 115.4                                                                                     | -        | 135.2                                                                                         | 132.6 | 161.3    | 153.6       | 159.8      | 140.4    | -     | 183.0 | 162.0    | 183.7 | 162.0 | 183.0       | 162.0 | 175.3 | 155.8                                                                               | 242.8 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 255.9                                                                                                                                                                                       | -     | 120.2                                                                                          | 117.9 | 112.4                                                                                     | -        | 132.3                                                                                         | 129.0 | 157.6    | 149.9       | 155.4      | 136.7    | -     | 169.8 | 157.6    | 169.8 | 157.6 | 167.6       | 157.6 | 160.5 | 151.4                                                                               | 255.9 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 269.0                                                                                                                                                                                       | -     | 117.2                                                                                          | 115.0 | 110.5                                                                                     | -        | 127.1                                                                                         | 124.9 | 145.9    | 144.0       | 144.4      | 132.3    | -     | 157.3 | 153.2    | 157.3 | 153.2 | 155.1       | 152.5 | 146.6 | 147.7                                                                               | 269.0 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 282.2                                                                                                                                                                                       | -     | 113.0                                                                                          | 111.6 | 108.5                                                                                     | -        | 124.2                                                                                         | 121.8 | 135.6    | 136.0       | 133.4      | 128.8    | -     | 144.4 | 145.1    | 145.5 | 145.5 | 142.9       | 144.0 | 134.1 | 136.2                                                                               | 282.2 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 295.3                                                                                                                                                                                       | -     | 110.2                                                                                          | 109.8 | 105.4                                                                                     | -        | 120.2                                                                                         | 117.9 | 124.6    | 125.7       | 122.4      | 123.5    | -     | 133.4 | 133.4    | 133.4 | 134.5 | 131.2       | 132.3 | 122.4 | 124.0                                                                               | 295.3 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 308.4                                                                                                                                                                                       | -     | 108.2                                                                                          | 106.8 | 103.6                                                                                     | -        | 117.2                                                                                         | 112.8 | 115.7    | 116.1       | 113.4      | 114.1    | -     | 123.1 | 123.1    | 123.1 | 123.5 | 121.6       | 122.0 | 111.3 | 112.4                                                                               | 308.4 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 321.5                                                                                                                                                                                       | -     | 106.1                                                                                          | 104.9 | 101.7                                                                                     | -        | 111.6                                                                                         | 105.7 | 107.1    | 107.4       | 104.9      | 105.1    | -     | 112.8 | 112.8    | 112.8 | 112.4 | 112.0       | 112.1 | 102.7 | 103.6                                                                               | 321.5 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 334.6                                                                                                                                                                                       | -     | 104.1                                                                                          | 103.2 | 100.5                                                                                     | -        | 103.4                                                                                         | 98.3  | 99.0     | 99.4        | 96.8       | 96.8     | -     | 103.6 | 103.8    | 103.4 | 103.6 | 102.3       | 102.5 | 94.1  | 94.8                                                                                | 334.6 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 347.8                                                                                                                                                                                       | -     | 96.9                                                                                           | 96.9  | 96.4                                                                                      | -        | 94.9                                                                                          | 91.0  | 91.8     | 92.2        | 89.6       | 89.1     | -     | 94.9  | 95.3     | 94.7  | 95.1  | 93.5        | 93.8  | 85.8  | 86.4                                                                                | 347.8 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 360.9                                                                                                                                                                                       | -     | 90.1                                                                                           | 90.5  | 91.1                                                                                      | -        | 86.4                                                                                          | 83.6  | 85.0     | 85.4        | 82.7       | 81.8     | -     | 86.8  | 87.3     | 86.6  | 87.0  | 85.2        | 85.8  | 78.1  | 78.6                                                                                | 360.9 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 374.0                                                                                                                                                                                       | -     | 83.8                                                                                           | 84.0  | 73.9                                                                                      | -        | 78.0                                                                                          | 76.1  | 78.7     | 79.1        | 76.5       | 75.0     | -     | 79.4  | 80.0     | 78.9  | 79.6  | 77.6        | 78.3  | 70.8  | 71.1                                                                                | 374.0 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 387.1                                                                                                                                                                                       | -     | 78.0                                                                                           | 78.3  | -                                                                                         | -        | 69.5                                                                                          | 68.7  | 73.1     | 73.4        | 70.6       | 68.8     | -     | 72.8  | 73.6     | 72.3  | 73.3  | 71.1        | 71.9  | 63.9  | 64.2                                                                                | 387.1 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 400.3                                                                                                                                                                                       | -     | 72.7                                                                                           | 73.0  | -                                                                                         | -        | 61.0                                                                                          | 61.4  | 67.8     | 68.0        | 64.8       | 62.8     | -     | 66.6  | 67.7     | 66.1  | 67.4  | 64.8        | 66.0  | 57.6  | 58.0                                                                                | 400.3 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 413.4                                                                                                                                                                                       | -     | 67.7                                                                                           | 67.9  | -                                                                                         | -        | 53.1                                                                                          | 54.0  | 62.8     | 63.1        | 59.3       | 57.3     | -     | 61.1  | 62.6     | 60.6  | 62.2  | 59.5        | 60.8  | 51.7  | 52.0                                                                                | 413.4 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 419.9                                                                                                                                                                                       | -     | 65.5                                                                                           | 65.7  | -                                                                                         | -        | 48.7                                                                                          | 50.3  | 60.5     | 60.7        | 56.8       | 54.9     | -     | 58.8  | 60.2     | 58.3  | 60.0  | 57.2        | 58.6  | 48.9  | 49.2                                                                                | 419.9 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 426.5                                                                                                                                                                                       | -     | 63.3                                                                                           | 26.0  | -                                                                                         | -        | 44.4                                                                                          | -     | 68.3     | 49.2        | 54.3       | -        | -     | 56.5  | -        | 56.1  | -     | 55.0        | -     | 46.3  | -                                                                                   | 426.5 |     |           |     |  |     |  |                                                                                     |  |    |  |
| 436.4                                                                                                                                                                                       | -     | 60.0                                                                                           | -     | -                                                                                         | -        | 38.1                                                                                          | -     | 55.1     | -           | 50.7       | -        | -     | 53.1  | -        | 52.9  | -     | 51.8        | -     | 42.5  | -                                                                                   | 436.4 |     |           |     |  |     |  |                                                                                     |  |    |  |

|  363,800 lb +  110,200 lb |   |  36.1-68.9 ft |   |  27.6 ft |       |  32.2 ft/s |       | 360°     |       | ASME B30.5  |       |           |       |           |       |       |       |       |       |       |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------|-------|----------|-------|-------------|-------|-----------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|
| 462.6 ft                                                                                                                                                                                    |   |                                                                                                |   |                                                                                           |       |                                                                                               |       |          |       |             |       |           |       |           |       |       |       |       |       |       |       |
| LSL+LF_2                                                                                                                                                                                    |   | LSL+LF_3                                                                                       |   | LSL+LF_4                                                                                  |       | LSL+LF_6                                                                                      |       | LSL+LF_8 |       | LSL+LF_10   |       | LSL+LF_12 |       | LSL+LF_14 |       |       |       |       |       |       |       |
| 39.4 ft                                                                                                                                                                                     |   |                                                                                                |   |                                                                                           |       |                                                                                               |       |          |       |             |       |           |       |           |       |       |       |       |       |       |       |
| 0 lb                                                                                                                                                                                        |   | 0-716.6 klb                                                                                    |   | 0 lb                                                                                      |       | 0-716.6 klb                                                                                   |       | 0 lb     |       | 0-716.6 klb |       |           |       |           |       |       |       |       |       |       |       |
| 15°                                                                                                                                                                                         |   | 20°                                                                                            |   | 30°                                                                                       |       | 15°                                                                                           |       | 20°      |       | 15°         |       | 20°       |       | 15°       |       | 20°   |       |       |       |       |       |
| ft                                                                                                                                                                                          |   | 1,000 lb                                                                                       |   |                                                                                           |       |                                                                                               |       |          |       |             |       |           |       | ft        |       |       |       |       |       |       |       |
| 59.1                                                                                                                                                                                        | - | -                                                                                              | - | -                                                                                         | -     | -                                                                                             | -     | 196.2    | -     | 198.4       | -     | 183.0     | 233.7 | -         | 242.5 | -     | 264.6 | -     | 304.2 | -     | 59.1  |
| 62.3                                                                                                                                                                                        | - | -                                                                                              | - | -                                                                                         | 166.4 | 172.0                                                                                         | 168.7 | 196.2    | 194.0 | 198.4       | 195.1 | 172.5     | 233.7 | -         | 242.5 | -     | 264.6 | -     | 304.2 | -     | 62.3  |
| 65.6                                                                                                                                                                                        | - | -                                                                                              | - | -                                                                                         | 157.6 | 172.0                                                                                         | 168.7 | 196.2    | 194.0 | 198.4       | 195.1 | 162.0     | 233.7 | 229.3     | 242.5 | 240.3 | 264.6 | 260.1 | 304.2 | 275.6 | 65.6  |
| 72.2                                                                                                                                                                                        | - | -                                                                                              | - | -                                                                                         | 142.2 | 170.9                                                                                         | 167.6 | 195.7    | 192.9 | 197.9       | 194.0 | 145.5     | 232.6 | 229.3     | 241.4 | 238.1 | 264.6 | 260.1 | 304.2 | 269.0 | 72.2  |
| 78.7                                                                                                                                                                                        | - | -                                                                                              | - | -                                                                                         | 126.8 | 169.8                                                                                         | 166.4 | 195.1    | 192.9 | 197.3       | 194.0 | 129.0     | 231.5 | 229.3     | 240.3 | 238.1 | 264.6 | 260.1 | 304.2 | 260.1 | 78.7  |
| 85.3                                                                                                                                                                                        | - | -                                                                                              | - | -                                                                                         | 114.9 | 169.2                                                                                         | 165.3 | 195.1    | 191.8 | 196.2       | 192.9 | 116.2     | 230.4 | 227.1     | 239.2 | 238.1 | 264.6 | 260.1 | 304.2 | 253.5 | 85.3  |
| 91.9                                                                                                                                                                                        | - | -                                                                                              | - | -                                                                                         | 103.0 | 168.7                                                                                         | 165.3 | 195.1    | 191.8 | 195.1       | 192.9 | 103.4     | 229.3 | 227.1     | 238.1 | 235.9 | 264.6 | 253.5 | 304.2 | 246.9 | 91.9  |
| 98.4                                                                                                                                                                                        | - | -                                                                                              | - | -                                                                                         | 93.3  | 167.6                                                                                         | 164.2 | 194.0    | 190.7 | 194.6       | 192.9 | 92.9      | 229.3 | 227.1     | 237.0 | 235.9 | 263.5 | 246.9 | 302.0 | 241.4 | 98.4  |
| 111.5                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | 75.6  | 165.3                                                                                         | 162.0 | 192.4    | 189.2 | 192.9       | 190.7 | 74.0      | 228.2 | 224.1     | 234.8 | 231.5 | 261.2 | 235.2 | 297.6 | 229.3 | 111.5 |
| 124.7                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | 61.3  | 162.8                                                                                         | 159.8 | 191.1    | 187.8 | 190.7       | 188.5 | 58.6      | 225.6 | 220.5     | 232.2 | 224.9 | 257.9 | 224.9 | 286.6 | 218.3 | 124.7 |
| 137.8                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | 48.5  | 160.9                                                                                         | 157.6 | 189.6    | 186.3 | 188.5       | 186.3 | 45.0      | 222.7 | 216.1     | 229.3 | 216.1 | 253.5 | 216.1 | 271.2 | 209.4 | 137.8 |
| 150.9                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | 38.5  | 158.0                                                                                         | 154.7 | 186.7    | 183.4 | 185.6       | 181.1 | 34.2      | 218.3 | 208.0     | 224.9 | 208.0 | 244.0 | 208.0 | 257.9 | 200.6 | 150.9 |
| 164.0                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | 29.5  | 155.1                                                                                         | 152.1 | 184.1    | 180.8 | 182.6       | 174.9 | 24.5      | 213.8 | 199.9     | 220.8 | 199.9 | 235.2 | 199.9 | 244.7 | 193.3 | 164.0 |
| 177.2                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | 21.4  | 152.1                                                                                         | 149.9 | 181.9    | 178.6 | 179.7       | 167.6 | 15.9      | 209.4 | 191.8     | 217.2 | 191.8 | 229.3 | 191.8 | 232.8 | 185.9 | 177.2 |
| 190.3                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | 14.8  | 149.5                                                                                         | 147.3 | 176.4    | 174.5 | 175.9       | 162.0 | 8.6       | 206.1 | 185.6     | 213.8 | 185.6 | 221.8 | 185.4 | 222.7 | 178.6 | 190.3 |
| 203.4                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | 7.9   | 145.1                                                                                         | 142.9 | 171.6    | 170.5 | 171.2       | 156.2 | -         | 201.0 | 178.9     | 209.4 | 178.9 | 213.8 | 178.9 | 214.6 | 172.7 | 203.4 |
| 216.5                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -     | 142.2                                                                                         | 140.0 | 168.7    | 167.6 | 167.6       | 151.0 | -         | 197.3 | 173.1     | 205.0 | 173.1 | 207.2 | 173.1 | 202.1 | 167.2 | 216.5 |
| 229.7                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -     | 138.2                                                                                         | 135.6 | 163.5    | 161.7 | 162.4       | 145.9 | -         | 189.2 | 167.9     | 191.8 | 167.9 | 193.3 | 167.9 | 185.2 | 162.0 | 229.7 |
| 242.8                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -     | 134.5                                                                                         | 132.3 | 160.2    | 155.8 | 158.0       | 141.5 | -         | 178.6 | 163.1     | 178.6 | 163.1 | 179.3 | 163.1 | 170.5 | 156.9 | 242.8 |
| 255.9                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -     | 130.1                                                                                         | 130.1 | 156.5    | 152.1 | 152.1       | 137.8 | -         | 165.3 | 158.7     | 165.3 | 158.7 | 165.3 | 158.7 | 155.8 | 152.1 | 255.9 |
| 269.0                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -     | 127.9                                                                                         | 125.7 | 144.8    | 143.3 | 141.5       | 133.4 | -         | 152.9 | 151.4     | 152.9 | 151.4 | 152.1 | 153.2 | 142.2 | 143.3 | 269.0 |
| 282.2                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -     | 124.0                                                                                         | 123.5 | 132.9    | 134.0 | 131.2       | 128.2 | -         | 141.1 | 141.5     | 140.7 | 141.8 | 140.7 | 140.7 | 129.9 | 130.8 | 282.2 |
| 295.3                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -     | 121.3                                                                                         | 119.0 | 122.4    | 123.5 | 120.2       | 120.2 | -         | 130.1 | 130.1     | 129.0 | 130.1 | 129.0 | 129.0 | 118.3 | 119.4 | 295.3 |
| 308.4                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -     | 116.1                                                                                         | 113.9 | 113.5    | 114.3 | 110.2       | 110.8 | -         | 119.0 | 119.8     | 118.7 | 119.0 | 117.6 | 117.9 | 108.0 | 109.1 | 308.4 |
| 321.5                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -     | 109.4                                                                                         | 106.9 | 104.9    | 105.6 | 102.4       | 101.7 | -         | 109.1 | 110.1     | 109.0 | 109.1 | 107.9 | 108.7 | 98.5  | 99.7  | 321.5 |
| 334.6                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -     | 101.2                                                                                         | 98.1  | 96.8     | 97.4  | 94.4        | 93.5  | -         | 100.3 | 100.5     | 99.9  | 100.1 | 98.8  | 99.0  | 89.9  | 90.8  | 334.6 |
| 347.8                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -     | 94.0                                                                                          | 89.1  | 89.6     | 90.1  | 86.9        | 85.9  | -         | 91.5  | 92.1      | 91.1  | 91.3  | 90.0  | 90.2  | 81.6  | 82.2  | 347.8 |
| 360.9                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -     | 86.0                                                                                          | 80.1  | 82.8     | 83.3  | 80.3        | 78.8  | -         | 83.7  | 84.2      | 83.1  | 83.6  | 81.9  | 82.2  | 74.1  | 74.6  | 360.9 |
| 374.0                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -     | 77.2                                                                                          | 71.0  | 76.5     | 76.9  | 73.9        | 71.9  | -         | 76.1  | 76.7      | 75.6  | 76.1  | 74.3  | 74.7  | 66.9  | 67.2  | 374.0 |
| 387.1                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -     | 67.5                                                                                          | 62.5  | 70.9     | 71.2  | 67.7        | 65.6  | -         | 69.4  | 70.3      | 68.7  | 69.6  | 67.5  | 67.9  | 60.0  | 60.2  | 387.1 |
| 400.3                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -     | 57.9                                                                                          | 53.8  | 65.6     | 65.8  | 61.7        | 59.7  | -         | 63.3  | 64.2      | 62.6  | 63.6  | 61.3  | 62.3  | 53.6  | 53.9  | 400.3 |
| 413.4                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -     | 48.9                                                                                          | 45.2  | 60.6     | 60.8  | 56.2        | 54.2  | -         | 57.5  | 58.6      | 56.9  | 58.2  | 55.6  | 56.9  | 47.7  | 48.0  | 413.4 |
| 426.5                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -     | 39.2                                                                                          | 35.9  | 56.1     | 56.3  | 51.2        | 49.3  | -         | 52.7  | 54.2      | 52.2  | 53.6  | 50.9  | 52.5  | 42.1  | 42.5  | 426.5 |
| 429.8                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -     | 36.8                                                                                          | -     | 54.9     | 55.2  | 50.0        | 48.1  | -         | 51.5  | 53.1      | 51.0  | 52.5  | 49.7  | 51.4  | 40.9  | 41.2  | 429.8 |
| 433.1                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -     | 35.1                                                                                          | -     | 53.8     | 54.0  | 48.7        | -     | -         | 50.3  | -         | 49.8  | -     | 48.5  | -     | 39.6  | -     | 433.1 |
| 439.6                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -     | 30.2                                                                                          | -     | 51.7     | -     | 46.4        | -     | -         | 48.2  | -         | 47.8  | -     | 46.4  | -     | 37.2  | -     | 439.6 |
| 442.9                                                                                                                                                                                       | - | -                                                                                              | - | -                                                                                         | -     | 28.2                                                                                          | -     | 50.7     | -     | 45.2        | -     | -         | 47.2  | -         | 46.7  | -     | 45.4  | -     | 35.9  | -     | 442.9 |

|                                                                                     |      |            |            |            |            |            |            |            |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|------------|
|  | 0 lb | 143,300 lb | 209,500 lb | 275,600 lb | 363,800 lb | 452,000 lb | 584,300 lb | 716,600 lb |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|------------|

LSL+LF\_2 – LSL+LF\_6:  36.1 ft – 62.3 ft

LSL+LF\_8 – LSL+LF\_12:  36.1 ft – 68.9 ft

LSL+LF\_14:  42.7 ft – 68.9 ft

LSL+LF\_14:  496,100 lb +  110,200 lb



| 363,800 lb + 110,200 lb 36.1-68.9 ft 27.6 ft 32.2 ft/s 360° ASME B30.5 |       |             |       |          |       |       |       |             |       |          |       |          |       |             |       |           |       |           |       |       |   |       |  |     |  |
|------------------------------------------------------------------------|-------|-------------|-------|----------|-------|-------|-------|-------------|-------|----------|-------|----------|-------|-------------|-------|-----------|-------|-----------|-------|-------|---|-------|--|-----|--|
| 472.4 ft                                                               |       |             |       |          |       |       |       |             |       |          |       |          |       |             |       |           |       |           |       |       |   |       |  |     |  |
| LSL+LF_2                                                               |       |             |       | LSL+LF_3 |       |       |       | LSL+LF_4    |       | LSL+LF_6 |       | LSL+LF_8 |       | LSL+LF_10   |       | LSL+LF_12 |       | LSL+LF_14 |       |       |   |       |  |     |  |
| 39.4 ft                                                                |       |             |       |          |       |       |       |             |       |          |       |          |       |             |       |           |       |           |       |       |   |       |  |     |  |
| 0 lb                                                                   |       | 0-716.6 klb |       |          |       | 0 lb  |       | 0-716.6 klb |       |          |       | 0 lb     |       | 0-716.6 klb |       |           |       |           |       |       |   |       |  |     |  |
| 15°                                                                    |       | 20°         |       | 30°      |       | 15°   |       | 20°         |       | 15°      |       | 20°      |       | 15°         |       | 20°       |       | 15°       |       | 20°   |   | 15°   |  | 20° |  |
| ft                                                                     |       | 1,000 lb    |       |          |       |       |       |             |       |          |       |          |       |             |       |           |       |           |       |       |   |       |  | ft  |  |
| 62.3                                                                   | 138.9 | 143.3       | 140.0 | -        | -     | -     | 162.0 | 187.4       | -     | -        | -     | 168.7    | 220.5 | -           | 231.5 | -         | 251.3 | -         | 291.0 | -     | - | 62.3  |  |     |  |
| 65.6                                                                   | 138.9 | 143.3       | 140.0 | -        | 154.3 | 165.3 | 162.0 | 187.4       | 184.1 | 194.0    | 189.6 | 158.7    | 220.5 | 218.3       | 231.5 | 227.1     | 251.3 | 246.9     | 291.0 | 277.8 | - | 65.6  |  |     |  |
| 68.9                                                                   | 137.8 | 142.7       | 139.4 | 131.2    | 146.6 | 164.8 | 161.5 | 187.1       | 184.1 | 194.0    | 189.6 | 150.5    | 220.5 | 217.7       | 230.9 | 227.1     | 251.3 | 246.9     | 291.0 | 273.4 | - | 68.9  |  |     |  |
| 72.2                                                                   | 137.8 | 142.2       | 138.9 | 131.2    | 138.9 | 164.2 | 160.9 | 186.8       | 184.1 | 194.0    | 189.6 | 142.2    | 220.5 | 217.2       | 230.4 | 227.1     | 251.3 | 246.9     | 291.0 | 269.0 | - | 72.2  |  |     |  |
| 78.7                                                                   | 127.9 | 141.1       | 137.8 | 130.1    | 123.5 | 163.1 | 159.8 | 186.3       | 183.0 | 194.0    | 189.6 | 125.7    | 220.5 | 217.2       | 229.3 | 227.1     | 251.3 | 246.9     | 291.0 | 262.4 | - | 78.7  |  |     |  |
| 85.3                                                                   | 114.6 | 140.0       | 136.7 | 130.1    | 111.8 | 162.6 | 158.7 | 186.3       | 183.0 | 193.5    | 188.5 | 113.0    | 219.9 | 217.2       | 228.2 | 224.9     | 251.3 | 246.9     | 291.0 | 255.7 | - | 85.3  |  |     |  |
| 91.9                                                                   | 103.6 | 138.9       | 135.6 | 129.0    | 100.1 | 162.0 | 157.6 | 186.3       | 181.9 | 192.9    | 188.5 | 100.3    | 219.4 | 216.1       | 227.1 | 224.9     | 251.3 | 246.9     | 291.0 | 249.1 | - | 91.9  |  |     |  |
| 98.4                                                                   | 93.3  | 137.8       | 134.5 | 127.9    | 90.5  | 160.4 | 156.5 | 185.2       | 181.9 | 192.4    | 187.4 | 90.1     | 218.8 | 216.1       | 227.1 | 224.9     | 250.2 | 246.9     | 289.9 | 242.5 | - | 98.4  |  |     |  |
| 111.5                                                                  | 76.5  | 134.8       | 132.3 | 125.7    | 73.1  | 157.6 | 154.3 | 183.0       | 179.7 | 190.7    | 185.9 | 71.3     | 217.2 | 215.3       | 226.0 | 223.4     | 248.0 | 236.6     | 286.6 | 230.4 | - | 111.5 |  |     |  |
| 124.7                                                                  | 61.8  | 132.3       | 129.7 | 123.8    | 58.9  | 155.4 | 152.1 | 181.1       | 177.8 | 188.5    | 184.5 | 56.1     | 215.0 | 213.5       | 223.4 | 220.8     | 245.4 | 226.7     | 283.3 | 220.5 | - | 124.7 |  |     |  |
| 137.8                                                                  | 49.2  | 130.1       | 126.8 | 122.4    | 46.3  | 153.2 | 149.9 | 179.7       | 176.4 | 186.3    | 183.0 | 42.5     | 212.7 | 210.5       | 220.5 | 217.2     | 242.5 | 217.2     | 273.4 | 211.3 | - | 137.8 |  |     |  |
| 150.9                                                                  | 39.2  | 127.1       | 124.6 | 119.4    | 36.3  | 149.5 | 146.2 | 176.7       | 173.4 | 184.1    | 180.0 | 32.0     | 209.1 | 206.1       | 216.8 | 209.1     | 232.2 | 209.1     | 260.1 | 201.7 | - | 150.9 |  |     |  |
| 164.0                                                                  | 30.1  | 124.2       | 122.0 | 116.8    | 27.3  | 146.2 | 142.9 | 173.8       | 170.5 | 180.8    | 175.3 | 22.3     | 205.0 | 200.6       | 212.4 | 201.4     | 225.8 | 201.4     | 248.4 | 194.4 | - | 164.0 |  |     |  |
| 177.2                                                                  | 22.0  | 121.3       | 119.0 | 114.6    | 19.2  | 143.3 | 140.0 | 170.9       | 167.6 | 176.4    | 168.7 | 13.7     | 200.6 | 194.0       | 207.2 | 194.0     | 219.4 | 194.0     | 230.7 | 187.2 | - | 177.2 |  |     |  |
| 187.0                                                                  | 17.0  | 119.3       | 116.8 | 113.0    | 14.3  | 141.1 | 137.5 | 167.3       | 163.4 | 173.9    | 164.8 | 8.2      | 197.6 | 189.0       | 204.2 | 189.0     | 215.0 | 189.0     | 228.2 | 181.9 | - | 187.0 |  |     |  |
| 190.3                                                                  | 15.3  | 118.6       | 116.1 | 112.4    | 12.7  | 140.0 | 136.7 | 166.7       | 162.6 | 173.3    | 163.1 | -        | 196.8 | 187.4       | 203.4 | 187.4     | 213.5 | 187.4     | 224.9 | 180.8 | - | 190.3 |  |     |  |
| 200.1                                                                  | 10.3  | 116.1       | 114.1 | 110.2    | 7.9   | 137.1 | 134.8 | 163.5       | 158.9 | 171.2    | 158.5 | -        | 194.2 | 182.6       | 200.8 | 182.6     | 207.1 | 182.6     | 215.5 | 175.8 | - | 200.1 |  |     |  |
| 203.4                                                                  | 8.6   | 115.4       | 113.5 | 109.8    | -     | 136.3 | 134.1 | 162.8       | 156.9 | 170.5    | 157.3 | -        | 193.3 | 181.1       | 199.9 | 181.1     | 204.3 | 181.1     | 212.4 | 174.2 | - | 203.4 |  |     |  |
| 216.5                                                                  | -     | 112.4       | 111.3 | 108.0    | -     | 133.4 | 131.2 | 159.8       | 152.1 | 167.6    | 152.1 | -        | 189.6 | 175.3       | 196.2 | 175.3     | 198.4 | 175.3     | 198.0 | 168.3 | - | 216.5 |  |     |  |
| 229.7                                                                  | -     | 110.1       | 108.4 | 105.5    | -     | 128.6 | 126.0 | 154.7       | 147.0 | 162.4    | 147.0 | -        | 183.7 | 170.1       | 185.9 | 170.1     | 188.1 | 170.1     | 181.9 | 163.1 | - | 229.7 |  |     |  |
| 242.8                                                                  | -     | 106.2       | 105.3 | 103.0    | -     | 124.2 | 122.0 | 149.2       | 142.9 | 157.6    | 142.6 | -        | 174.2 | 165.0       | 174.2 | 165.0     | 176.0 | 165.0     | 167.2 | 158.7 | - | 242.8 |  |     |  |
| 255.9                                                                  | -     | 103.0       | 101.4 | 100.5    | -     | 121.3 | 119.0 | 145.5       | 140.0 | 151.0    | 138.9 | -        | 160.9 | 159.8       | 160.9 | 159.8     | 162.0 | 159.8     | 152.5 | 152.9 | - | 255.9 |  |     |  |
| 269.0                                                                  | -     | 100.3       | 98.9  | 96.7     | -     | 117.2 | 115.7 | 141.1       | 134.8 | 139.6    | 134.5 | -        | 149.5 | 149.5       | 148.8 | 150.1     | 149.2 | 151.0     | 140.0 | 141.1 | - | 269.0 |  |     |  |
| 282.2                                                                  | -     | 96.5        | 95.2  | 93.3     | -     | 114.3 | 112.4 | 131.5       | 129.3 | 129.0    | 127.5 | -        | 137.8 | 138.9       | 137.8 | 138.5     | 137.8 | 138.5     | 126.8 | 129.3 | - | 282.2 |  |     |  |
| 295.3                                                                  | -     | 94.1        | 93.0  | 91.3     | -     | 111.3 | 110.0 | 121.3       | 121.3 | 117.9    | 117.9 | -        | 126.8 | 127.9       | 126.8 | 126.8     | 126.8 | 126.8     | 116.0 | 117.5 | - | 295.3 |  |     |  |
| 308.4                                                                  | -     | 91.1        | 90.1  | 89.5     | -     | 108.5 | 105.5 | 111.7       | 112.3 | 109.1    | 107.9 | -        | 116.2 | 117.3       | 115.7 | 116.8     | 115.7 | 116.5     | 105.6 | 106.9 | - | 308.4 |  |     |  |
| 321.5                                                                  | -     | 89.1        | 88.2  | 86.7     | -     | 104.3 | 98.8  | 103.0       | 103.5 | 100.5    | 98.9  | -        | 106.9 | 106.9       | 106.7 | 106.9     | 105.7 | 106.6     | 96.0  | 97.2  | - | 321.5 |  |     |  |
| 334.6                                                                  | -     | 87.3        | 86.4  | 85.1     | -     | 98.5  | 89.3  | 94.8        | 95.2  | 92.2     | 90.4  | -        | 97.9  | 98.1        | 97.4  | 97.9      | 96.8  | 97.0      | 87.4  | 88.4  | - | 334.6 |  |     |  |
| 347.8                                                                  | -     | 85.0        | 84.3  | 83.3     | -     | 88.7  | 80.4  | 87.6        | 88.0  | 84.8     | 82.8  | -        | 89.2  | 89.7        | 88.8  | 89.3      | 88.1  | 88.3      | 79.1  | 80.0  | - | 347.8 |  |     |  |
| 360.9                                                                  | -     | 83.1        | 82.8  | 82.1     | -     | 78.8  | 71.3  | 80.8        | 81.2  | 77.7     | 75.8  | -        | 81.4  | 81.8        | 80.8  | 81.4      | 80.0  | 80.2      | 71.7  | 72.3  | - | 360.9 |  |     |  |
| 374.0                                                                  | -     | 80.9        | 81.4  | 80.9     | -     | 69.0  | 61.7  | 74.5        | 74.7  | 71.0     | 69.0  | -        | 73.9  | 74.3        | 73.2  | 73.9      | 72.3  | 72.5      | 64.5  | 65.1  | - | 374.0 |  |     |  |
| 387.1                                                                  | -     | 75.3        | 75.6  | 76.1     | -     | 59.5  | 52.0  | 68.8        | 69.2  | 64.6     | 62.6  | -        | 66.9  | 67.5        | 66.5  | 67.0      | 65.5  | 65.9      | 57.8  | 58.2  | - | 387.1 |  |     |  |
| 390.4                                                                  | -     | 73.9        | 74.2  | 33.7     | -     | 57.3  | 49.9  | 67.4        | 67.8  | 63.2     | 61.2  | -        | 65.3  | 65.9        | 64.9  | 65.5      | 63.8  | 64.3      | 56.2  | 56.6  | - | 390.4 |  |     |  |
| 400.3                                                                  | -     | 70.0        | 70.2  | -        | -     | 50.0  | 43.2  | 63.3        | 63.7  | 58.9     | 57.0  | -        | 60.8  | 61.6        | 60.3  | 61.1      | 59.2  | 59.8      | 51.4  | 51.9  | - | 400.3 |  |     |  |
| 413.4                                                                  | -     | 64.8        | 65.0  | -        | -     | 41.0  | 34.0  | 58.4        | 58.6  | 53.4     | 51.4  | -        | 54.9  | 56.0        | 54.5  | 55.6      | 53.4  | 54.2      | 45.5  | 45.9  | - | 413.4 |  |     |  |
| 426.5                                                                  | -     | 60.4        | 60.6  | -        | -     | 31.1  | 24.1  | 53.9        | 54.1  | 48.4     | 46.4  | -        | 50.0  | 51.3        | 49.5  | 50.9      | 48.3  | 49.6      | 39.9  | 40.3  | - | 426.5 |  |     |  |
| 433.1                                                                  | -     | 58.2        | 58.4  | -        | -     | 26.7  | 19.4  | 51.6        | 51.8  | 45.9     | 43.9  | -        | 47.6  | 48.9        | 47.0  | 48.5      | 45.9  | 47.4      | 37.4  | 37.8  | - | 433.1 |  |     |  |
| 436.4                                                                  | -     | 57.2        | 57.3  | -        | -     | 24.2  | -     | 50.5        | 50.8  | 44.8     | 42.8  | -        | 46.6  | 48.1        | 46.0  | 47.6      | 44.9  | 46.5      | 36.2  | 36.6  | - | 436.4 |  |     |  |
| 439.6                                                                  | -     | 56.1        | 56.2  | -        | -     | 21.7  | -     | 49.5        | 49.8  | 43.7     | -     | -        | 45.6  | -           | 45.0  | -         | 43.9  | -         | 34.9  | -     | - | 439.6 |  |     |  |
| 442.9                                                                  | -     | 55.1        | 19.4  | -        | -     | 19.2  | -     | 48.4        | -     | 42.5     | -     | -        | 44.5  | -           | 44.0  | -         | 42.9  | -         | 33.7  | -     | - | 442.9 |  |     |  |
| 452.8                                                                  | -     | 52.0        | -     | -        | -     | 12.1  | -     | 45.2        | -     | 39.2     | -     | -        | 41.4  | -           | 41.0  | -         | 39.9  | -         | 30.2  | -     | - | 452.8 |  |     |  |



|      |            |            |            |            |            |            |            |
|------|------------|------------|------------|------------|------------|------------|------------|
| 0 lb | 143,300 lb | 209,500 lb | 275,600 lb | 363,800 lb | 452,000 lb | 584,300 lb | 716,600 lb |
|------|------------|------------|------------|------------|------------|------------|------------|

LSL+LF\_2 – LSL+LF\_6:  36.1 ft – 62.3 ft

LSL+LF\_8 – LSL+LF\_12:  36.1 ft – 68.9 ft

LSL+LF\_14:  42.7 ft – 68.9 ft

**LSL+LF\_14:**  496,100 lb +  110,200 lb

| <div> <div>363,800 lb +  110,200 lb</div> <div> 36.1-68.9 ft</div> <div> 27.6 ft</div> <div> 32.2 ft/s</div> <div>360°</div> <div>ASME B30.5</div> </div> |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <div> <div>482.3 ft</div> <div>LSL+LF_3   LSL+LF_4   LSL+LF_6   LSL+LF_8   LSL+LF_10   LSL+LF_12   LSL+LF_14</div> <div>39.4 ft</div> <div>0 lb   0-716.6 klb   0 lb   0-716.6 klb</div> <div>15°   20°   15°   20°   15°   20°   15°   20°   15°   20°   15°   20°   15°   20°</div> </div>                                                                                                                                                                                                    |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1,000 lb |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | ft    |
| 62.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -        | -     | -     | 179.7 | -     | 184.1 | -     | 164.2 | 211.6 | -     | 220.5 | -     | 238.1 | -     | 275.6 | -     | 62.3  |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 149.9    | 158.7 | 155.4 | 178.6 | 177.5 | 184.1 | 180.8 | 154.3 | 211.6 | 208.3 | 220.5 | 217.2 | 238.1 | 233.7 | 275.6 | 271.2 | 65.6  |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 135.0    | 157.6 | 154.3 | 178.6 | 176.4 | 183.5 | 180.8 | 137.8 | 211.1 | 207.2 | 220.5 | 217.2 | 237.0 | 233.7 | 275.6 | 271.2 | 72.2  |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 120.2    | 156.5 | 154.3 | 178.6 | 176.4 | 183.0 | 179.7 | 121.3 | 210.5 | 207.2 | 220.5 | 217.2 | 235.9 | 233.7 | 275.6 | 262.4 | 78.7  |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 108.4    | 156.0 | 153.2 | 178.0 | 175.3 | 182.4 | 179.7 | 108.9 | 210.0 | 207.2 | 219.4 | 216.1 | 234.8 | 233.7 | 275.6 | 255.7 | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 96.6     | 155.4 | 152.1 | 177.5 | 175.3 | 181.9 | 179.7 | 96.6  | 209.4 | 206.1 | 218.3 | 216.1 | 233.7 | 231.5 | 275.6 | 249.1 | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 87.1     | 154.3 | 151.0 | 176.9 | 174.2 | 181.3 | 178.6 | 86.3  | 208.9 | 206.1 | 217.7 | 215.0 | 233.7 | 231.5 | 275.6 | 243.6 | 98.4  |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 69.8     | 152.1 | 148.8 | 175.3 | 172.7 | 179.7 | 177.8 | 67.8  | 207.8 | 205.4 | 216.6 | 213.5 | 231.5 | 228.5 | 273.4 | 232.6 | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 55.7     | 149.9 | 146.6 | 173.4 | 171.2 | 177.8 | 176.7 | 52.8  | 205.8 | 203.6 | 214.6 | 211.3 | 227.8 | 224.5 | 272.3 | 222.1 | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 43.2     | 147.7 | 144.4 | 172.0 | 169.8 | 176.4 | 175.3 | 39.2  | 202.8 | 200.6 | 211.6 | 208.3 | 224.9 | 219.4 | 266.8 | 212.7 | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 33.4     | 145.5 | 142.2 | 170.5 | 167.6 | 174.2 | 173.1 | 28.7  | 199.2 | 196.2 | 207.2 | 203.9 | 220.5 | 210.5 | 262.4 | 203.9 | 150.9 |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 24.5     | 142.9 | 140.0 | 168.4 | 165.6 | 171.4 | 170.2 | 19.1  | 195.1 | 192.2 | 202.8 | 199.5 | 214.4 | 202.6 | 250.6 | 195.8 | 164.0 |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 16.5     | 140.0 | 137.8 | 166.4 | 163.1 | 168.7 | 167.6 | 10.6  | 190.7 | 188.5 | 197.3 | 195.1 | 208.3 | 195.1 | 238.8 | 188.5 | 177.2 |
| 180.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 14.9     | 139.4 | 136.7 | 164.6 | 161.5 | 167.9 | 166.4 | 8.8   | 189.8 | 187.6 | 196.4 | 193.5 | 205.8 | 193.5 | 235.9 | 186.8 | 180.4 |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9.8      | 137.2 | 134.5 | 162.4 | 159.8 | 165.7 | 163.1 | -     | 187.0 | 184.8 | 193.6 | 188.5 | 201.4 | 188.5 | 224.9 | 181.9 | 190.3 |
| 193.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8.2      | 136.4 | 133.9 | 161.7 | 159.3 | 165.0 | 162.0 | -     | 186.1 | 183.9 | 192.7 | 186.8 | 199.9 | 186.8 | 220.6 | 180.4 | 193.6 |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 134.1 | 131.9 | 158.7 | 155.4 | 163.1 | 158.4 | -     | 183.4 | 180.0 | 188.5 | 182.2 | 193.3 | 182.2 | 208.0 | 176.0 | 203.4 |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 131.2 | 129.0 | 156.5 | 153.2 | 160.9 | 153.2 | -     | 179.7 | 176.4 | 184.1 | 176.4 | 187.4 | 176.4 | 191.8 | 170.1 | 216.5 |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 127.9 | 125.7 | 152.1 | 148.1 | 158.0 | 148.8 | -     | 174.9 | 170.5 | 178.9 | 171.2 | 180.8 | 170.5 | 176.4 | 164.2 | 229.7 |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 123.5 | 121.3 | 148.4 | 144.0 | 152.9 | 144.4 | -     | 167.6 | 165.3 | 169.8 | 165.3 | 170.5 | 164.6 | 162.4 | 159.1 | 242.8 |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 121.3 | 119.0 | 145.5 | 140.0 | 145.5 | 140.0 | -     | 156.5 | 158.7 | 156.5 | 158.7 | 156.5 | 158.7 | 148.8 | 149.9 | 255.9 |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 116.8 | 115.3 | 140.4 | 136.7 | 135.0 | 132.8 | -     | 144.8 | 145.9 | 144.8 | 146.6 | 144.6 | 146.1 | 135.6 | 136.7 | 269.0 |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 114.0 | 112.4 | 129.3 | 129.3 | 125.3 | 123.1 | -     | 133.7 | 134.5 | 133.4 | 134.5 | 133.4 | 134.5 | 123.5 | 125.2 | 282.2 |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 111.3 | 110.2 | 119.0 | 119.0 | 115.7 | 113.5 | -     | 123.5 | 123.5 | 122.4 | 123.5 | 122.4 | 123.5 | 112.6 | 113.8 | 295.3 |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 109.0 | 107.3 | 109.2 | 110.2 | 106.7 | 104.5 | -     | 113.1 | 113.8 | 112.8 | 113.7 | 112.4 | 113.0 | 101.9 | 103.2 | 308.4 |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 104.2 | 101.5 | 100.8 | 101.4 | 97.7  | 95.5  | -     | 103.8 | 104.3 | 103.4 | 104.0 | 102.6 | 103.0 | 92.2  | 93.5  | 321.5 |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 97.0  | 92.4  | 92.6  | 93.0  | 89.1  | 86.9  | -     | 94.6  | 95.0  | 94.1  | 94.6  | 93.3  | 93.5  | 83.4  | 84.4  | 334.6 |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 89.8  | 81.9  | 85.3  | 85.8  | 81.4  | 79.5  | -     | 86.2  | 86.5  | 85.8  | 86.1  | 84.7  | 85.0  | 75.2  | 76.1  | 347.8 |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 81.7  | 71.4  | 78.6  | 79.0  | 74.3  | 72.5  | -     | 78.2  | 78.5  | 77.7  | 78.0  | 76.6  | 76.9  | 67.8  | 68.5  | 360.9 |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 71.0  | 61.9  | 72.1  | 72.5  | 67.7  | 65.7  | -     | 70.5  | 71.0  | 70.1  | 70.5  | 69.0  | 69.2  | 60.7  | 61.3  | 374.0 |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 60.3  | 51.4  | 66.5  | 66.8  | 61.6  | 59.6  | -     | 63.8  | 64.3  | 63.3  | 63.9  | 62.2  | 62.6  | 53.8  | 54.2  | 387.1 |
| 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 50.9  | 41.8  | 61.1  | 61.4  | 55.9  | 53.9  | -     | 57.5  | 58.2  | 57.0  | 57.8  | 55.9  | 56.4  | 47.6  | 47.9  | 400.3 |
| 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 41.2  | 31.7  | 56.0  | 56.4  | 50.3  | 48.3  | -     | 51.6  | 52.5  | 51.1  | 52.0  | 49.8  | 50.7  | 41.7  | 42.0  | 413.4 |
| 426.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 30.3  | 21.0  | 51.6  | 51.9  | 45.2  | 43.3  | -     | 46.4  | 47.5  | 45.9  | 47.1  | 44.7  | 45.8  | 36.2  | 36.4  | 426.5 |
| 439.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 20.1  | 10.7  | 47.4  | 47.5  | 40.5  | 38.6  | -     | 41.7  | 43.2  | 41.3  | 42.7  | 40.0  | 41.4  | 31.0  | 31.4  | 439.6 |
| 442.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 17.4  | 7.9   | 46.3  | 46.5  | 39.4  | 37.5  | -     | 40.7  | 42.2  | 40.2  | 41.6  | 38.9  | 40.5  | 29.7  | 30.1  | 442.9 |
| 446.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 14.7  | -     | 45.3  | 45.4  | 38.2  | 36.4  | -     | 39.6  | 41.2  | 39.2  | 40.6  | 37.8  | 39.5  | 28.4  | 28.9  | 446.2 |
| 452.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 9.9   | -     | 43.2  | -     | 35.9  | -     | -     | 37.5  | -     | 37.0  | -     | 35.7  | -     | 26.2  | -     | 452.8 |
| 462.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -     | 39.2  | -     | 32.8  | -     | -     | 34.8  | -     | 34.4  | -     | 33.1  | -     | 22.9  | -     | 462.6 |

 0 lb    143,300 lb    209,500 lb    275,600 lb    363,800 lb    452,000 lb    584,300 lb    716,600 lb

LSL+LF\_3 – LSL+LF\_6:  36.1 ft – 62.3 ft

LSL+LF\_8 – LSL+LF\_12:  36.1 ft – 68.9 ft

LSL+LF\_14:  42.7 ft – 68.9 ft

LSL+LF\_14:  496,100 lb +  110,200 lb

|  363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s           360°           ASME B30.5 |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 492.1 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| LSL+LF_4    LSL+LF_6    LSL+LF_8    LSL+LF_10    LSL+LF_12    LSL+LF_14                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 39.4 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 0 lb    0-716.6 klb    0 lb    0-716.6 klb                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 15°    20°    15°    20°    15°    20°    15°    20°    15°    20°    15°    20°                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1,000 lb |       |       |       |       |       |       |       |       |       |       |       |       |       | ft    |
| 62.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 152.1    | 158.7 | -     | 175.3 | -     | 160.9 | 200.6 | -     | 211.6 | -     | 229.3 | -     | 262.4 | -     | 62.3  |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 145.5    | 157.6 | 154.3 | 174.2 | 172.0 | 151.0 | 200.6 | 197.3 | 211.6 | 208.3 | 229.3 | 224.9 | 262.4 | 257.9 | 65.6  |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 130.6    | 157.1 | 153.2 | 174.2 | 172.0 | 135.0 | 200.1 | 197.3 | 211.1 | 207.2 | 228.2 | 224.9 | 262.4 | 257.9 | 72.2  |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 115.7    | 156.5 | 152.1 | 174.2 | 170.9 | 119.0 | 199.5 | 196.2 | 210.5 | 207.2 | 227.1 | 224.9 | 262.4 | 257.9 | 78.7  |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 104.4    | 155.4 | 152.1 | 173.6 | 170.9 | 106.7 | 199.0 | 196.2 | 210.0 | 207.2 | 227.1 | 224.9 | 262.4 | 254.6 | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 93.0     | 154.3 | 151.0 | 173.1 | 169.8 | 94.4  | 198.4 | 196.2 | 209.4 | 206.1 | 227.1 | 222.7 | 262.4 | 251.3 | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 83.7     | 153.2 | 149.9 | 172.5 | 169.8 | 84.2  | 198.4 | 195.1 | 208.3 | 205.0 | 226.0 | 222.7 | 262.4 | 244.7 | 98.4  |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 66.6     | 150.5 | 147.7 | 170.9 | 168.3 | 65.8  | 197.9 | 194.4 | 206.1 | 202.1 | 223.8 | 220.5 | 262.4 | 232.6 | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 52.7     | 147.7 | 145.1 | 169.0 | 166.8 | 50.9  | 195.8 | 192.9 | 203.2 | 198.8 | 221.2 | 218.3 | 260.1 | 222.7 | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 40.3     | 145.5 | 142.2 | 167.6 | 165.3 | 37.7  | 192.9 | 190.7 | 199.5 | 195.1 | 218.3 | 216.1 | 257.2 | 213.8 | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 30.6     | 142.6 | 140.0 | 165.3 | 163.9 | 27.3  | 189.2 | 187.0 | 194.4 | 188.9 | 213.8 | 208.7 | 253.5 | 205.0 | 150.9 |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 21.8     | 139.6 | 137.4 | 163.1 | 161.7 | 17.8  | 185.6 | 183.0 | 187.9 | 182.1 | 206.5 | 203.2 | 244.7 | 196.9 | 164.0 |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 13.9     | 136.7 | 134.5 | 159.8 | 158.7 | 9.3   | 181.9 | 179.7 | 183.0 | 176.4 | 201.7 | 194.0 | 235.9 | 189.6 | 177.2 |
| 187.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8.8      | 134.5 | 132.1 | 158.2 | 157.1 | -     | 179.1 | 176.4 | 176.9 | 172.0 | 195.7 | 190.1 | 229.3 | 184.6 | 187.0 |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 133.7 | 131.4 | 157.6 | 156.5 | -     | 178.2 | 175.6 | 175.6 | 170.5 | 194.4 | 188.9 | 227.1 | 183.0 | 190.3 |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 130.8 | 128.6 | 155.1 | 152.1 | -     | 174.5 | 170.5 | 170.1 | 162.8 | 187.8 | 180.0 | 211.6 | 177.1 | 203.4 |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 127.9 | 125.7 | 152.1 | 149.9 | -     | 170.9 | 167.6 | 164.2 | 157.6 | 181.9 | 174.2 | 196.6 | 171.6 | 216.5 |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 123.1 | 121.6 | 148.1 | 145.5 | -     | 165.7 | 161.7 | 158.0 | 149.2 | 176.7 | 166.1 | 181.9 | 166.4 | 229.7 |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 118.7 | 117.9 | 144.8 | 142.2 | -     | 161.3 | 157.3 | 151.4 | 144.0 | 167.6 | 160.2 | 167.9 | 161.3 | 242.8 |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 115.7 | 113.5 | 141.1 | 137.8 | -     | 155.4 | 152.1 | 145.5 | 140.0 | 154.3 | 154.3 | 154.9 | 154.3 | 255.9 |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 111.7 | 110.6 | 132.7 | 130.7 | -     | 143.7 | 144.8 | 140.5 | 136.0 | 142.6 | 143.5 | 142.2 | 144.4 | 269.0 |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 109.0 | 107.6 | 123.5 | 122.0 | -     | 132.3 | 133.4 | 132.6 | 130.8 | 131.0 | 132.3 | 130.4 | 132.6 | 282.2 |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 106.5 | 104.9 | 114.6 | 112.4 | -     | 121.3 | 122.4 | 122.4 | 123.5 | 120.2 | 121.3 | 119.0 | 120.9 | 295.3 |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 103.5 | 102.1 | 105.4 | 103.6 | -     | 112.0 | 112.8 | 112.2 | 113.3 | 110.3 | 111.1 | 109.1 | 110.2 | 308.4 |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 99.9  | 99.2  | 96.6  | 94.7  | -     | 102.8 | 103.4 | 102.9 | 103.5 | 100.8 | 101.2 | 99.4  | 100.4 | 321.5 |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 95.0  | 95.7  | 88.4  | 85.8  | -     | 93.7  | 94.1  | 93.7  | 94.1  | 91.5  | 91.9  | 90.5  | 91.3  | 334.6 |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 87.8  | 88.3  | 80.5  | 78.4  | -     | 85.3  | 85.8  | 85.3  | 85.8  | 83.1  | 83.4  | 82.0  | 83.1  | 347.8 |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 81.1  | 81.6  | 73.2  | 71.4  | -     | 77.3  | 77.7  | 77.3  | 77.7  | 75.1  | 75.3  | 74.7  | 75.5  | 360.9 |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 74.7  | 75.2  | 66.6  | 64.8  | -     | 69.7  | 70.1  | 69.7  | 70.1  | 67.5  | 67.7  | 67.6  | 68.2  | 374.0 |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 69.0  | 69.4  | 60.6  | 58.6  | -     | 62.9  | 63.5  | 62.9  | 63.3  | 60.6  | 60.9  | 60.8  | 61.3  | 387.1 |
| 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 63.6  | 63.9  | 54.7  | 52.8  | -     | 56.5  | 57.2  | 56.4  | 57.0  | 54.0  | 54.5  | 54.7  | 55.0  | 400.3 |
| 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 58.6  | 58.9  | 49.2  | 47.2  | -     | 50.5  | 51.4  | 50.3  | 51.1  | 48.1  | 48.7  | 48.6  | 48.9  | 413.4 |
| 426.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 54.1  | 54.3  | 43.9  | 42.2  | -     | 45.3  | 46.3  | 45.1  | 46.0  | 42.9  | 43.7  | 43.0  | 43.4  | 426.5 |
| 439.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 49.8  | 50.0  | 39.2  | 37.4  | -     | 40.5  | 41.7  | 40.3  | 41.4  | 38.1  | 39.2  | 38.0  | 38.3  | 439.6 |
| 452.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 45.9  | 46.1  | 34.6  | 32.8  | -     | 35.9  | 37.5  | 35.7  | 37.3  | 33.7  | 35.1  | 33.2  | 33.5  | 452.8 |
| 459.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 43.9  | 35.5  | 32.6  | -     | -     | 34.1  | -     | 33.9  | -     | 31.9  | -     | 30.9  | -     | 459.3 |
| 465.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 41.9  | -     | 30.6  | -     | -     | 32.2  | -     | 32.0  | -     | 30.0  | -     | 28.7  | -     | 465.9 |
| 469.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 40.8  | -     | 29.5  | -     | -     | 31.3  | -     | 31.1  | -     | 29.1  | -     | 27.6  | -     | 469.2 |

|                                                                                     |      |            |            |            |            |            |            |            |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|------------|
|  | 0 lb | 143,300 lb | 209,500 lb | 275,600 lb | 363,800 lb | 452,000 lb | 584,300 lb | 716,600 lb |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|------------|

LSL+LF\_4 – LSL+LF\_6:  36.1 ft – 62.3 ft

LSL+LF\_8 – LSL+LF\_12:  36.1 ft – 68.9 ft

LSL+LF\_14:  42.7 ft – 68.9 ft

LSL+LF\_14:  496,100 lb +  110,200 lb

|  363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s           360°           ASME B30.5 |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 502.0 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| LSL+LF_4    LSL+LF_6    LSL+LF_8    LSL+LF_10    LSL+LF_12    LSL+LF_14                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 39.4 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 0 lb    0-716.6 klb    0 lb    0-716.6 klb                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 15°    20°    15°    20°    15°    20°    15°    20°    15°    20°    15°    20°                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1,000 lb |       |       |       |       |       |       |       |       |       |       |       |       |       | ft    |
| 62.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 147.7    | 152.1 | -     | 166.4 | -     | 155.4 | 191.8 | -     | 201.7 | -     | 217.2 | -     | 249.1 | -     | 62.3  |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 142.2    | 152.1 | 148.8 | 166.4 | 163.1 | 146.6 | 190.7 | -     | 200.6 | -     | 217.2 | -     | 249.1 | -     | 65.6  |
| 68.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 134.8    | 151.8 | 148.3 | 166.2 | 163.1 | 138.6 | 190.4 | 188.5 | 200.6 | 197.3 | 216.9 | 213.8 | 249.1 | 244.7 | 68.9  |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 127.3    | 151.6 | 147.7 | 165.9 | 163.1 | 130.6 | 190.1 | 187.4 | 200.6 | 197.3 | 216.6 | 213.8 | 249.1 | 244.7 | 72.2  |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 112.4    | 151.0 | 147.7 | 165.3 | 162.0 | 114.6 | 189.6 | 187.4 | 200.6 | 197.3 | 216.1 | 213.8 | 249.1 | 244.7 | 78.7  |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 101.1    | 149.9 | 146.6 | 164.8 | 162.0 | 102.6 | 189.6 | 187.4 | 200.1 | 197.3 | 216.1 | 213.8 | 249.1 | 244.7 | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 89.7     | 148.8 | 145.5 | 164.2 | 160.9 | 90.6  | 189.6 | 186.3 | 199.5 | 196.2 | 216.1 | 213.8 | 249.1 | 244.7 | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 80.5     | 147.7 | 144.4 | 163.7 | 160.9 | 80.6  | 189.0 | 186.3 | 198.4 | 195.1 | 215.0 | 212.7 | 249.1 | 242.5 | 98.4  |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 63.6     | 145.5 | 142.2 | 162.0 | 160.2 | 62.4  | 187.9 | 185.6 | 196.8 | 192.9 | 214.4 | 212.0 | 249.1 | 234.8 | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 49.9     | 143.3 | 140.4 | 160.2 | 159.1 | 47.6  | 186.3 | 183.7 | 194.4 | 190.0 | 212.7 | 210.2 | 246.9 | 224.3 | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 37.7     | 141.1 | 138.9 | 158.7 | 157.6 | 34.4  | 184.1 | 180.8 | 190.7 | 186.3 | 210.5 | 207.2 | 245.4 | 215.0 | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 28.0     | 138.9 | 136.0 | 157.3 | 156.2 | 24.1  | 180.4 | 177.8 | 186.3 | 181.9 | 206.1 | 202.1 | 242.5 | 206.1 | 150.9 |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 19.3     | 136.5 | 133.6 | 155.1 | 154.0 | 14.6  | 177.1 | 174.2 | 180.8 | 177.5 | 199.3 | 196.2 | 235.2 | 198.8 | 164.0 |
| 173.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 13.4     | 134.5 | 132.3 | 152.9 | 152.5 | 8.2   | 174.2 | 171.6 | 177.5 | 172.0 | 195.3 | 192.9 | 229.3 | 193.2 | 173.9 |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 11.5     | 133.4 | 131.2 | 152.1 | 152.1 | -     | 173.1 | 170.9 | 176.4 | 170.9 | 194.0 | 191.8 | 227.1 | 191.3 | 177.2 |
| 183.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7.9      | 132.3 | 130.1 | 151.0 | 151.0 | -     | 171.2 | 169.0 | 172.0 | 167.9 | 191.8 | 188.1 | 222.7 | 187.4 | 183.7 |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 131.2 | 129.0 | 149.9 | 149.9 | -     | 169.4 | 167.2 | 169.8 | 165.0 | 189.6 | 184.5 | 218.3 | 184.1 | 190.3 |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 128.6 | 126.4 | 147.7 | 147.7 | -     | 165.7 | 162.8 | 164.6 | 158.4 | 184.1 | 179.3 | 204.3 | 178.2 | 203.4 |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 125.7 | 123.5 | 145.5 | 145.5 | -     | 162.0 | 158.7 | 158.7 | 153.2 | 179.7 | 174.2 | 190.3 | 172.7 | 216.5 |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 122.4 | 120.2 | 143.3 | 141.1 | -     | 157.3 | 155.8 | 154.3 | 145.9 | 172.3 | 167.6 | 176.4 | 167.6 | 229.7 |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 118.5 | 117.9 | 140.9 | 138.2 | -     | 153.2 | 149.5 | 147.3 | 140.5 | 162.0 | 160.9 | 163.1 | 161.7 | 242.8 |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 115.7 | 113.5 | 137.8 | 134.5 | -     | 148.8 | 144.4 | 142.2 | 135.6 | 148.8 | 151.0 | 150.1 | 152.1 | 255.9 |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 111.6 | 110.2 | 128.2 | 126.4 | -     | 138.5 | 138.0 | 137.1 | 131.8 | 137.8 | 139.3 | 137.8 | 140.0 | 269.0 |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 109.3 | 108.0 | 119.0 | 117.9 | -     | 128.1 | 129.3 | 129.2 | 127.3 | 126.4 | 127.9 | 125.7 | 128.2 | 282.2 |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 106.3 | 105.6 | 110.2 | 108.9 | -     | 117.9 | 119.0 | 117.9 | 119.0 | 115.7 | 116.8 | 115.2 | 117.1 | 295.3 |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 104.0 | 102.5 | 101.7 | 100.1 | -     | 108.4 | 109.3 | 108.5 | 109.3 | 106.2 | 107.0 | 105.2 | 106.5 | 308.4 |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 99.6  | 98.9  | 93.3  | 91.3  | -     | 99.2  | 99.8  | 99.3  | 99.8  | 96.9  | 97.4  | 95.6  | 96.6  | 321.5 |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 93.0  | 93.5  | 84.9  | 82.5  | -     | 90.2  | 90.8  | 90.4  | 90.8  | 87.7  | 88.2  | 86.5  | 87.5  | 334.6 |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 85.5  | 86.2  | 76.9  | 75.1  | -     | 81.9  | 82.5  | 82.0  | 82.3  | 79.4  | 79.8  | 77.8  | 78.9  | 347.8 |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 78.9  | 79.4  | 69.6  | 68.0  | -     | 74.0  | 74.4  | 73.9  | 74.2  | 71.3  | 71.7  | 70.5  | 71.4  | 360.9 |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 72.5  | 73.0  | 63.3  | 61.5  | -     | 66.6  | 67.0  | 66.4  | 66.8  | 63.9  | 64.2  | 63.6  | 64.4  | 374.0 |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 66.8  | 67.2  | 57.2  | 55.3  | -     | 59.8  | 60.3  | 59.6  | 60.0  | 57.0  | 57.4  | 56.9  | 57.5  | 387.1 |
| 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 61.4  | 61.8  | 51.4  | 49.5  | -     | 53.4  | 53.8  | 53.0  | 53.6  | 50.5  | 51.0  | 50.7  | 51.1  | 400.3 |
| 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 56.4  | 56.7  | 45.9  | 43.9  | -     | 47.4  | 48.1  | 47.0  | 47.6  | 44.5  | 45.0  | 44.8  | 45.3  | 413.4 |
| 426.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 51.9  | 52.1  | 40.9  | 38.9  | -     | 42.0  | 42.9  | 41.7  | 42.5  | 39.2  | 40.0  | 39.2  | 39.7  | 426.5 |
| 439.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 47.6  | 47.8  | 36.1  | 34.2  | -     | 37.0  | 38.1  | 36.7  | 37.7  | 34.3  | 35.3  | 34.1  | 34.5  | 439.6 |
| 452.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 43.4  | 43.7  | 31.5  | 29.8  | -     | 32.4  | 33.7  | 32.2  | 33.3  | 29.8  | 31.1  | 29.2  | 29.7  | 452.8 |
| 462.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 40.7  | 40.8  | 28.4  | 26.7  | -     | 29.5  | 30.9  | 29.2  | 30.6  | 26.7  | 28.2  | 25.8  | 26.2  | 462.6 |
| 465.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 39.8  | 39.9  | 27.4  | -     | -     | 28.6  | -     | 28.2  | -     | 25.8  | -     | 24.7  | -     | 465.9 |
| 469.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 38.8  | 13.7  | 26.4  | -     | -     | 27.6  | -     | 27.2  | -     | 24.9  | -     | 23.7  | -     | 469.2 |
| 479.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 35.3  | -     | 23.4  | -     | -     | 24.9  | -     | 24.3  | -     | 22.3  | -     | 20.7  | -     | 479.0 |

 0 lb    143,300 lb    209,500 lb    275,600 lb    363,800 lb    452,000 lb    584,300 lb    716,600 lb

LSL+LF\_4 – LSL+LF\_6:  36.1 ft – 62.3 ft

LSL+LF\_8 – LSL+LF\_12:  36.1 ft – 68.9 ft

LSL+LF\_14:  42.7 ft – 68.9 ft

LSL+LF\_14:  496,100 lb +  110,200 lb

| <div> <div> <div></div> <div>363,800 lb + <div></div> 110,200 lb</div> </div> <div> <div></div> <div>36.1-68.9 ft</div> </div> <div> <div></div> <div>27.6 ft</div> </div> <div> <div></div> <div>32.2 ft/s</div> </div> <div> <div></div> <div>360°</div> </div> <div> <div></div> <div>ASME B30.5</div> </div> </div> |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <div> <div> <div></div> <div>511.8 ft</div> </div> <div> <div>LSL+LF_4</div> <div>LSL+LF_6</div> <div>LSL+LF_8</div> <div>LSL+LF_10</div> <div>LSL+LF_12</div> <div>LSL+LF_14</div> </div> </div>                                                                                                                       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| <div> <div> <div></div> <div>39.4 ft</div> </div> <div> <div>0 lb</div> <div>0-716.6 klb</div> <div>0 lb</div> <div>0-716.6 klb</div> </div> </div>                                                                                                                                                                     |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| <div> <div> <div></div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> </div> </div>                                                                                               |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| ft                                                                                                                                                                                                                                                                                                                      | 1,000 lb |       |       |       |       |       |       |       |       |       |       |       |       |       | ft    |
| 65.6                                                                                                                                                                                                                                                                                                                    | 137.8    | 145.5 | -     | 156.5 | -     | 143.3 | 180.8 | -     | 189.6 | -     | 206.1 | -     | 235.9 | -     | 65.6  |
| 68.9                                                                                                                                                                                                                                                                                                                    | 130.7    | 145.2 | 142.2 | 156.3 | 154.3 | 135.3 | 180.5 | 177.5 | 189.3 | 187.4 | 205.9 | 202.8 | 235.9 | 233.7 | 68.9  |
| 72.2                                                                                                                                                                                                                                                                                                                    | 123.7    | 145.0 | 142.2 | 156.0 | 154.3 | 127.3 | 180.2 | 177.5 | 189.0 | 186.3 | 205.6 | 202.8 | 235.9 | 233.7 | 72.2  |
| 78.7                                                                                                                                                                                                                                                                                                                    | 109.6    | 144.4 | 141.1 | 155.4 | 154.3 | 111.3 | 179.7 | 177.5 | 188.5 | 186.3 | 205.0 | 202.8 | 235.9 | 233.7 | 78.7  |
| 85.3                                                                                                                                                                                                                                                                                                                    | 98.2     | 143.3 | 140.0 | 154.9 | 153.2 | 99.5  | 179.1 | 176.4 | 188.5 | 186.3 | 205.0 | 202.8 | 235.9 | 233.7 | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                    | 86.9     | 142.2 | 140.0 | 154.3 | 153.2 | 87.7  | 178.6 | 176.4 | 188.5 | 185.2 | 205.0 | 202.8 | 235.9 | 233.7 | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                    | 77.6     | 141.1 | 138.9 | 153.8 | 152.1 | 77.8  | 178.0 | 176.4 | 187.9 | 185.2 | 204.5 | 201.7 | 235.9 | 232.6 | 98.4  |
| 111.5                                                                                                                                                                                                                                                                                                                   | 60.8     | 139.4 | 136.7 | 152.7 | 151.4 | 59.7  | 177.5 | 175.6 | 186.8 | 183.7 | 203.9 | 201.7 | 234.8 | 230.4 | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                   | 47.3     | 137.8 | 134.8 | 151.4 | 150.3 | 45.0  | 176.4 | 174.2 | 184.8 | 181.5 | 202.5 | 200.3 | 233.7 | 224.9 | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                   | 35.1     | 135.6 | 133.4 | 149.9 | 148.8 | 32.0  | 174.2 | 172.0 | 181.9 | 178.6 | 199.5 | 197.3 | 232.2 | 216.1 | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                   | 25.5     | 133.4 | 131.2 | 148.4 | 147.3 | 21.7  | 171.2 | 169.0 | 178.2 | 174.9 | 195.8 | 192.9 | 229.3 | 207.2 | 150.9 |
| 164.0                                                                                                                                                                                                                                                                                                                   | 16.8     | 130.8 | 129.0 | 146.2 | 145.5 | 12.2  | 168.7 | 165.3 | 174.2 | 170.9 | 190.3 | 187.4 | 222.7 | 199.9 | 164.0 |
| 170.6                                                                                                                                                                                                                                                                                                                   | 12.9     | 129.7 | 127.9 | 145.3 | 144.4 | 7.9   | 166.4 | 163.7 | 172.0 | 168.7 | 187.8 | 185.2 | 220.5 | 196.2 | 170.6 |
| 177.2                                                                                                                                                                                                                                                                                                                   | 9.0      | 129.0 | 126.8 | 144.4 | 143.3 | -     | 164.2 | 162.0 | 169.8 | 166.4 | 185.2 | 183.0 | 217.2 | 192.5 | 177.2 |
| 190.3                                                                                                                                                                                                                                                                                                                   | -        | 126.0 | 124.6 | 141.5 | 141.1 | -     | 161.3 | 159.1 | 166.1 | 161.7 | 180.8 | 177.8 | 209.4 | 185.2 | 190.3 |
| 203.4                                                                                                                                                                                                                                                                                                                   | -        | 123.5 | 122.0 | 138.9 | 138.9 | -     | 158.4 | 155.8 | 161.3 | 157.6 | 175.6 | 172.3 | 197.7 | 179.3 | 203.4 |
| 216.5                                                                                                                                                                                                                                                                                                                   | -        | 121.3 | 119.0 | 136.7 | 136.7 | -     | 155.4 | 152.1 | 157.6 | 153.2 | 172.0 | 168.7 | 184.8 | 173.8 | 216.5 |
| 229.7                                                                                                                                                                                                                                                                                                                   | -        | 117.9 | 116.1 | 134.5 | 134.5 | -     | 150.3 | 149.2 | 152.5 | 147.7 | 166.8 | 162.0 | 170.9 | 168.7 | 229.7 |
| 242.8                                                                                                                                                                                                                                                                                                                   | -        | 114.3 | 112.9 | 132.3 | 132.3 | -     | 147.2 | 144.4 | 148.3 | 143.3 | 158.4 | 156.5 | 158.5 | 159.1 | 242.8 |
| 255.9                                                                                                                                                                                                                                                                                                                   | -        | 112.4 | 110.2 | 130.1 | 129.0 | -     | 143.3 | 138.9 | 144.4 | 136.7 | 145.5 | 147.7 | 146.2 | 147.9 | 255.9 |
| 269.0                                                                                                                                                                                                                                                                                                                   | -        | 109.3 | 107.2 | 122.7 | 121.6 | -     | 134.5 | 133.7 | 134.8 | 132.3 | 134.5 | 136.0 | 134.5 | 135.6 | 269.0 |
| 282.2                                                                                                                                                                                                                                                                                                                   | -        | 107.1 | 104.9 | 114.6 | 113.5 | -     | 124.9 | 125.7 | 124.9 | 126.8 | 123.2 | 125.2 | 123.1 | 125.0 | 282.2 |
| 295.3                                                                                                                                                                                                                                                                                                                   | -        | 104.1 | 102.7 | 106.9 | 105.4 | -     | 114.6 | 115.7 | 114.6 | 115.7 | 113.5 | 114.6 | 112.8 | 114.1 | 295.3 |
| 308.4                                                                                                                                                                                                                                                                                                                   | -        | 101.8 | 99.8  | 98.5  | 96.9  | -     | 105.4 | 106.3 | 105.5 | 106.3 | 103.6 | 104.5 | 102.5 | 104.1 | 308.4 |
| 321.5                                                                                                                                                                                                                                                                                                                   | -        | 97.4  | 96.3  | 90.3  | 88.4  | -     | 96.3  | 97.2  | 96.3  | 97.1  | 94.5  | 95.1  | 93.3  | 94.4  | 321.5 |
| 334.6                                                                                                                                                                                                                                                                                                                   | -        | 90.8  | 91.5  | 82.2  | 80.0  | -     | 87.5  | 88.2  | 87.5  | 88.0  | 85.5  | 86.0  | 84.4  | 85.2  | 334.6 |
| 347.8                                                                                                                                                                                                                                                                                                                   | -        | 83.6  | 84.2  | 74.3  | 72.2  | -     | 79.4  | 80.0  | 79.3  | 79.7  | 77.3  | 77.6  | 75.8  | 76.5  | 347.8 |
| 360.9                                                                                                                                                                                                                                                                                                                   | -        | 76.9  | 77.5  | 67.0  | 65.2  | -     | 71.6  | 72.0  | 71.3  | 71.8  | 69.4  | 69.7  | 68.4  | 69.2  | 360.9 |
| 374.0                                                                                                                                                                                                                                                                                                                   | -        | 70.5  | 71.0  | 60.4  | 58.6  | -     | 64.2  | 64.6  | 63.9  | 64.4  | 61.7  | 62.2  | 61.5  | 62.3  | 374.0 |
| 387.1                                                                                                                                                                                                                                                                                                                   | -        | 64.6  | 65.2  | 54.4  | 52.6  | -     | 57.4  | 57.8  | 57.2  | 57.6  | 54.9  | 55.3  | 54.9  | 55.6  | 387.1 |
| 400.3                                                                                                                                                                                                                                                                                                                   | -        | 59.4  | 59.8  | 48.6  | 46.7  | -     | 51.0  | 51.5  | 50.7  | 51.0  | 48.5  | 48.9  | 48.7  | 49.2  | 400.3 |
| 413.4                                                                                                                                                                                                                                                                                                                   | -        | 54.2  | 54.7  | 43.2  | 41.2  | -     | 45.0  | 45.6  | 44.5  | 45.2  | 42.3  | 43.0  | 42.8  | 43.4  | 413.4 |
| 426.5                                                                                                                                                                                                                                                                                                                   | -        | 49.7  | 50.1  | 38.2  | 36.2  | -     | 39.5  | 40.3  | 39.2  | 39.9  | 36.9  | 37.7  | 37.3  | 37.7  | 426.5 |
| 439.6                                                                                                                                                                                                                                                                                                                   | -        | 45.4  | 45.6  | 33.4  | 31.5  | -     | 34.5  | 35.4  | 34.2  | 35.1  | 31.9  | 32.8  | 32.3  | 32.6  | 439.6 |
| 452.8                                                                                                                                                                                                                                                                                                                   | -        | 41.2  | 41.7  | 28.9  | 26.9  | -     | 29.8  | 30.9  | 29.5  | 30.6  | 27.3  | 28.4  | 27.3  | 27.6  | 452.8 |
| 465.9                                                                                                                                                                                                                                                                                                                   | -        | 34.3  | 38.0  | 24.5  | 22.9  | -     | 25.7  | 27.2  | 25.5  | 26.7  | 23.4  | 24.7  | 22.7  | 23.1  | 465.9 |
| 469.2                                                                                                                                                                                                                                                                                                                   | -        | 32.6  | 37.1  | 23.5  | 21.8  | -     | 24.8  | 26.2  | 24.5  | 25.8  | 22.4  | 23.8  | 21.7  | 22.0  | 469.2 |
| 475.7                                                                                                                                                                                                                                                                                                                   | -        | 29.2  | 35.3  | 21.6  | -     | -     | 22.9  | -     | 22.6  | -     | 20.6  | -     | 19.6  | -     | 475.7 |
| 479.0                                                                                                                                                                                                                                                                                                                   | -        | 27.4  | -     | 20.6  | -     | -     | 22.0  | -     | 21.6  | -     | 19.7  | -     | 18.6  | -     | 479.0 |
| 485.6                                                                                                                                                                                                                                                                                                                   | -        | 24.3  | -     | 18.7  | -     | -     | 20.3  | -     | 19.6  | -     | 18.1  | -     | 16.5  | -     | 485.6 |

|             |      |            |            |            |            |            |            |            |
|-------------|------|------------|------------|------------|------------|------------|------------|------------|
| <div></div> | 0 lb | 143,300 lb | 209,500 lb | 275,600 lb | 363,800 lb | 452,000 lb | 584,300 lb | 716,600 lb |
|-------------|------|------------|------------|------------|------------|------------|------------|------------|

LSL+LF\_4 – LSL+LF\_6:  36.1 ft – 62.3 ft

LSL+LF\_8 – LSL+LF\_12:  36.1 ft – 68.9 ft

LSL+LF\_14:  42.7 ft – 68.9 ft

LSL+LF\_14:  496,100 lb +  110,200 lb



| <div> <div>363,800 lb +  110,200 lb</div> <div> 36.1-68.9 ft</div> <div> 27.6 ft</div> <div> 32.2 ft/s</div> <div>360°</div> <div>ASME B30.5</div> </div> |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <div> <div>521.7 ft</div> <div> <div>LSL+LF_4</div> <div>LSL+LF_6</div> <div>LSL+LF_8</div> <div>LSL+LF_10</div> <div>LSL+LF_12</div> <div>LSL+LF_14</div> </div> <div>39.4 ft</div> <div> <div>0 lb</div> <div>0-716.6 klb</div> <div>0 lb</div> <div>0-716.6 klb</div> </div> <div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> </div> </div>         |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1,000 lb |       |       |       |       |       |       |       |       |       |       |       |       |       | ft    |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 134.5    | 138.9 | -     | 148.8 | -     | 138.9 | 173.1 | -     | 180.8 | -     | 196.2 | -     | 224.9 | -     | 65.6  |
| 68.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 127.4    | 138.6 | 136.7 | 148.5 | 146.6 | 131.2 | 172.5 | 169.8 | 180.5 | 178.6 | 195.9 | 192.9 | 224.9 | 220.5 | 68.9  |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 120.3    | 138.3 | 136.7 | 148.3 | 146.6 | 123.6 | 172.0 | 169.8 | 180.2 | 177.5 | 195.7 | 192.9 | 224.9 | 220.5 | 72.2  |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 106.0    | 137.8 | 135.6 | 147.7 | 146.6 | 108.2 | 170.9 | 168.7 | 179.7 | 177.5 | 195.1 | 192.9 | 224.9 | 220.5 | 78.7  |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 94.8     | 137.2 | 135.6 | 147.2 | 145.5 | 96.1  | 170.9 | 168.7 | 179.1 | 176.4 | 195.1 | 192.9 | 224.9 | 220.5 | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 83.6     | 136.7 | 134.5 | 146.6 | 145.5 | 84.0  | 170.9 | 168.7 | 178.6 | 176.4 | 195.1 | 192.9 | 224.9 | 220.5 | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 74.5     | 136.1 | 133.4 | 146.1 | 144.4 | 74.2  | 170.3 | 167.6 | 178.0 | 176.4 | 194.6 | 191.8 | 224.9 | 220.5 | 98.4  |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 58.0     | 134.5 | 131.9 | 145.0 | 143.7 | 56.3  | 169.2 | 166.8 | 176.9 | 174.2 | 193.5 | 191.1 | 223.8 | 220.5 | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 44.5     | 132.6 | 130.4 | 143.7 | 142.6 | 41.8  | 167.6 | 165.0 | 175.3 | 172.0 | 191.8 | 189.2 | 221.6 | 218.8 | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 32.4     | 131.2 | 129.0 | 142.2 | 141.1 | 28.9  | 165.3 | 162.0 | 173.1 | 169.8 | 189.6 | 186.3 | 219.7 | 214.2 | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 22.9     | 129.0 | 126.8 | 140.7 | 139.6 | 18.6  | 162.4 | 159.1 | 170.2 | 166.1 | 187.4 | 184.1 | 218.3 | 208.3 | 150.9 |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 14.1     | 126.8 | 124.9 | 138.9 | 137.8 | 9.0   | 159.1 | 155.9 | 165.3 | 162.0 | 180.8 | 177.8 | 212.4 | 201.0 | 164.0 |
| 173.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8.2      | 125.1 | 123.8 | 137.2 | 136.1 | -     | 156.3 | 153.9 | 162.0 | 158.7 | 177.5 | 174.2 | 209.4 | 195.7 | 173.9 |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 124.6 | 123.5 | 136.7 | 135.6 | -     | 155.4 | 153.2 | 160.9 | 157.6 | 176.4 | 173.1 | 207.7 | 194.0 | 177.2 |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 123.1 | 121.3 | 134.5 | 133.4 | -     | 151.8 | 149.5 | 157.3 | 153.2 | 171.6 | 168.7 | 200.6 | 187.4 | 190.3 |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 121.3 | 119.0 | 132.3 | 131.5 | -     | 148.4 | 144.8 | 153.2 | 148.8 | 167.6 | 162.0 | 190.3 | 180.8 | 203.4 |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 119.0 | 116.8 | 130.1 | 130.1 | -     | 145.5 | 141.1 | 148.8 | 144.4 | 163.1 | 157.6 | 178.6 | 174.2 | 216.5 |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 116.2 | 114.6 | 127.9 | 128.6 | -     | 140.9 | 136.3 | 145.1 | 138.9 | 158.4 | 152.1 | 165.3 | 167.6 | 229.7 |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 112.4 | 111.3 | 125.7 | 126.8 | -     | 136.7 | 132.3 | 141.1 | 134.0 | 152.6 | 147.5 | 152.5 | 155.2 | 242.8 |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 110.2 | 109.6 | 123.5 | 123.5 | -     | 133.4 | 127.9 | 136.7 | 129.0 | 141.1 | 142.2 | 140.7 | 142.9 | 255.9 |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 108.0 | 106.6 | 117.6 | 116.8 | -     | 128.2 | 123.5 | 130.5 | 124.6 | 129.6 | 131.2 | 129.0 | 131.2 | 269.0 |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 106.0 | 104.7 | 110.5 | 109.4 | -     | 120.9 | 118.6 | 120.5 | 119.3 | 119.6 | 120.5 | 118.8 | 120.4 | 282.2 |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 103.0 | 102.3 | 102.5 | 101.2 | -     | 111.3 | 112.4 | 110.2 | 111.3 | 109.6 | 110.2 | 108.4 | 109.8 | 295.3 |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 101.0 | 99.7  | 94.4  | 93.0  | -     | 102.0 | 102.9 | 101.6 | 102.6 | 99.9  | 100.8 | 98.3  | 100.1 | 308.4 |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 96.3  | 95.8  | 86.4  | 84.7  | -     | 92.9  | 93.7  | 92.6  | 93.4  | 90.8  | 91.6  | 89.2  | 90.5  | 321.5 |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 88.8  | 89.3  | 78.5  | 76.5  | -     | 84.2  | 84.9  | 83.8  | 84.4  | 82.0  | 82.5  | 80.3  | 81.4  | 334.6 |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 81.5  | 82.1  | 70.8  | 68.3  | -     | 76.1  | 76.8  | 75.7  | 76.1  | 73.6  | 74.1  | 71.9  | 72.5  | 347.8 |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 74.7  | 75.3  | 63.6  | 61.6  | -     | 68.4  | 69.0  | 67.9  | 68.3  | 65.9  | 66.3  | 64.4  | 65.3  | 360.9 |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 68.3  | 68.8  | 56.7  | 55.1  | -     | 61.1  | 61.5  | 60.4  | 60.8  | 58.4  | 58.6  | 57.4  | 58.3  | 374.0 |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 62.5  | 62.9  | 50.8  | 49.2  | -     | 54.2  | 54.8  | 53.6  | 54.0  | 51.5  | 51.9  | 50.9  | 51.6  | 387.1 |
| 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 57.2  | 57.6  | 45.3  | 43.4  | -     | 47.9  | 48.4  | 47.3  | 47.7  | 45.2  | 45.5  | 44.9  | 45.4  | 400.3 |
| 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 52.0  | 52.5  | 39.9  | 37.9  | -     | 41.9  | 42.3  | 41.2  | 41.7  | 39.0  | 39.5  | 39.1  | 39.5  | 413.4 |
| 426.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 47.4  | 47.8  | 34.9  | 32.9  | -     | 36.4  | 37.0  | 35.8  | 36.4  | 33.6  | 34.2  | 33.5  | 34.0  | 426.5 |
| 439.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 42.5  | 43.0  | 30.1  | 28.1  | -     | 31.3  | 30.8  | 30.6  | 31.4  | 28.2  | 29.2  | 27.3  | 27.4  | 439.6 |
| 452.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 37.3  | 38.1  | 25.6  | 23.6  | -     | 26.5  | 23.6  | 25.8  | 26.0  | 23.6  | 24.7  | 21.2  | 21.5  | 452.8 |
| 465.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 29.5  | 31.8  | 21.5  | 19.6  | -     | 18.8  | 14.5  | 19.9  | 16.9  | 19.5  | 20.9  | 15.4  | 15.9  | 465.9 |
| 475.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 24.4  | 26.7  | 18.5  | 16.8  | -     | 12.9  | 7.7   | 14.9  | 10.1  | 16.6  | 18.1  | 11.8  | 12.3  | 475.7 |
| 479.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 23.6  | -     | 17.6  | -     | -     | 10.7  | -     | 12.8  | -     | 15.7  | -     | 10.6  | -     | 479.0 |
| 482.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 21.7  | -     | 16.6  | -     | -     | 8.6   | -     | 10.7  | -     | 14.9  | -     | 9.4   | -     | 482.3 |
| 485.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 19.7  | -     | 15.7  | -     | -     | -     | -     | 8.6   | -     | 14.0  | -     | 8.2   | -     | 485.6 |
| 492.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 15.9  | -     | 13.9  | -     | -     | -     | -     | -     | -     | 12.3  | -     | -     | -     | 492.1 |
| 495.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 13.9  | -     | 13.0  | -     | -     | -     | -     | -     | -     | 11.7  | -     | -     | -     | 495.4 |



0 lb

143,300 lb

209,500 lb

275,600 lb

363,800 lb

452,000 lb

584,300 lb

716,600 lb

LSL+LF\_4 – LSL+LF\_6:  36.1 ft – 62.3 ft

LSL+LF\_8 – LSL+LF\_12:  36.1 ft – 68.9 ft

LSL+LF\_14:  42.7 ft – 68.9 ft

LSL+LF\_14:  496,100 lb +  110,200 lb

|  363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s           360°           ASME B30.5 |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 531.5 ft <div>             LSL+LF_10             LSL+LF_12             LSL+LF_14             LSL+LF_10             LSL+LF_12             LSL+LF_14           </div> 541.3 ft           39.4 ft           0 lb           0-716.6 klb           0-716.6 klb           15° 20° 15° 20° 15° 20° 15° 20° 15° 20° 15° 20°                                                                                                                                                                                                    |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1,000 lb |       |       |       |       |       |       |       |       |       |       |       |       |       | ft    |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 134.5    | 170.9 | -     | 185.2 | -     | 215.0 | -     | 130.1 | 162.0 | -     | 176.4 | -     | 203.9 | -     | 65.6  |
| 68.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 127.1    | 170.6 | 168.7 | 184.9 | 181.9 | 215.0 | 211.6 | 122.7 | 161.8 | -     | 176.1 | -     | 203.9 | -     | 68.9  |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 119.7    | 170.3 | 168.7 | 184.6 | 181.9 | 215.0 | 211.6 | 115.4 | 161.5 | 159.8 | 175.8 | 174.2 | 203.9 | 201.7 | 72.2  |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 104.9    | 169.8 | 167.6 | 184.1 | 181.9 | 215.0 | 211.6 | 100.8 | 160.9 | 159.8 | 175.3 | 173.1 | 203.9 | 201.7 | 78.7  |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 92.9     | 169.2 | 167.6 | 183.5 | 180.8 | 215.0 | 211.6 | 89.0  | 160.4 | 158.7 | 175.3 | 173.1 | 203.9 | 201.7 | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 80.9     | 168.7 | 167.6 | 183.0 | 180.8 | 215.0 | 211.6 | 77.2  | 159.8 | 158.7 | 175.3 | 173.1 | 203.9 | 201.7 | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 71.2     | 168.7 | 166.4 | 182.4 | 180.8 | 215.0 | 211.6 | 67.6  | 159.8 | 157.6 | 174.2 | 172.0 | 203.9 | 201.7 | 98.4  |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 53.6     | 168.1 | 165.0 | 181.3 | 179.3 | 213.8 | 211.1 | 50.2  | 159.3 | 156.9 | 172.0 | 169.8 | 202.8 | 200.6 | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 39.2     | 166.4 | 163.1 | 179.7 | 177.5 | 212.7 | 209.4 | 35.9  | 157.6 | 155.4 | 169.4 | 166.8 | 201.2 | 200.1 | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 26.2     | 164.2 | 160.9 | 177.5 | 175.3 | 210.5 | 206.1 | 22.9  | 155.4 | 153.2 | 166.4 | 163.1 | 199.9 | 197.7 | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 16.1     | 161.6 | 158.3 | 174.2 | 172.0 | 208.3 | 201.7 | 12.9  | 153.2 | 151.0 | 163.1 | 159.8 | 198.4 | 194.0 | 150.9 |
| 157.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 11.0     | 159.8 | 157.6 | 173.1 | 170.9 | 206.1 | 198.8 | 7.9   | 152.1 | 149.9 | 160.9 | 157.6 | 196.2 | 191.4 | 157.5 |
| 160.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8.8      | 158.9 | 156.2 | 171.8 | 167.7 | 205.0 | 197.3 | -     | 151.2 | 149.0 | 158.7 | 155.8 | 195.3 | 190.0 | 160.8 |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 158.0 | 155.1 | 170.5 | 166.8 | 203.9 | 195.8 | -     | 150.3 | 148.1 | 157.6 | 154.3 | 194.7 | 188.7 | 164.0 |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 154.3 | 152.1 | 165.3 | 163.1 | 199.5 | 190.3 | -     | 146.6 | 144.4 | 153.2 | 149.9 | 190.3 | 183.4 | 177.2 |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 150.6 | 148.4 | 160.9 | 157.3 | 192.9 | 184.1 | -     | 143.7 | 141.5 | 147.0 | 144.8 | 185.2 | 177.5 | 190.3 |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 147.0 | 144.0 | 156.5 | 152.9 | 184.8 | 177.5 | -     | 140.7 | 138.5 | 141.8 | 138.5 | 177.8 | 171.6 | 203.4 |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 143.3 | 141.1 | 152.1 | 147.7 | 174.5 | 170.5 | -     | 137.8 | 135.6 | 136.7 | 133.4 | 168.0 | 165.0 | 216.5 |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 139.8 | 136.3 | 147.7 | 142.9 | 162.0 | 163.1 | -     | 133.7 | 132.3 | 129.5 | 128.3 | 155.4 | 157.6 | 229.7 |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 134.9 | 131.9 | 143.5 | 136.7 | 149.5 | 151.7 | -     | 129.7 | 127.5 | 124.6 | 122.0 | 143.7 | 145.9 | 242.8 |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 132.3 | 127.9 | 140.0 | 132.3 | 137.8 | 140.0 | -     | 126.8 | 124.6 | 119.0 | 116.8 | 132.3 | 134.5 | 255.9 |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 127.0 | 122.6 | 129.0 | 127.1 | 126.8 | 129.0 | -     | 122.7 | 120.2 | 112.0 | 110.4 | 121.3 | 123.5 | 269.0 |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 119.6 | 116.8 | 118.8 | 119.8 | 116.5 | 117.7 | -     | 114.5 | 114.2 | 105.8 | 106.1 | 111.6 | 113.6 | 282.2 |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 109.6 | 110.2 | 109.3 | 110.2 | 106.3 | 107.8 | -     | 105.4 | 106.7 | 98.8  | 101.4 | 101.9 | 103.8 | 295.3 |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 100.3 | 101.2 | 99.9  | 101.1 | 96.6  | 98.1  | -     | 96.3  | 97.4  | 91.7  | 95.7  | 92.2  | 94.1  | 308.4 |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 91.3  | 92.4  | 90.9  | 91.9  | 87.5  | 88.8  | -     | 87.5  | 88.5  | 84.6  | 88.4  | 83.2  | 84.9  | 321.5 |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 82.7  | 83.6  | 82.2  | 82.9  | 78.6  | 79.7  | -     | 78.9  | 79.8  | 77.4  | 79.6  | 74.7  | 75.9  | 334.6 |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 74.7  | 75.2  | 74.1  | 74.5  | 70.3  | 71.0  | -     | 71.0  | 71.7  | 70.3  | 71.5  | 66.4  | 67.2  | 347.8 |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 67.1  | 67.5  | 66.4  | 66.8  | 62.5  | 63.5  | -     | 63.4  | 64.0  | 63.0  | 63.7  | 58.7  | 59.6  | 360.9 |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 59.7  | 60.2  | 59.1  | 59.3  | 55.4  | 56.4  | -     | 56.2  | 56.7  | 55.3  | 56.2  | 51.6  | 52.4  | 374.0 |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 52.8  | 53.1  | 52.2  | 52.5  | 48.9  | 49.8  | -     | 49.4  | 49.9  | 44.9  | 48.0  | 45.0  | 46.1  | 387.1 |
| 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 46.5  | 47.0  | 45.9  | 46.2  | 43.1  | 43.8  | -     | 43.1  | 43.5  | 35.1  | 38.3  | 37.5  | 39.2  | 400.3 |
| 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 40.3  | 40.8  | 39.7  | 40.1  | 36.7  | 37.3  | -     | 37.0  | 37.5  | 26.0  | 27.6  | 30.0  | 31.6  | 413.4 |
| 426.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 34.9  | 35.3  | 34.1  | 34.7  | 30.0  | 30.4  | -     | 31.5  | 32.0  | 17.9  | 18.4  | 22.5  | 23.4  | 426.5 |
| 439.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 29.5  | 30.2  | 28.8  | 29.5  | 23.1  | 23.1  | -     | 26.2  | 26.8  | 10.4  | 10.1  | 15.9  | 16.3  | 439.6 |
| 442.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 28.2  | 29.0  | 27.6  | 28.2  | 21.5  | 21.5  | -     | 25.0  | 25.6  | 8.6   | 8.2   | 14.2  | 14.6  | 442.9 |
| 452.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 24.7  | 25.6  | 24.0  | 24.9  | 16.9  | 17.0  | -     | 21.4  | 22.0  | -     | -     | 9.6   | 9.7   | 452.8 |
| 456.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 23.7  | 24.1  | 22.7  | 23.7  | 15.4  | 15.5  | -     | 20.3  | 20.2  | -     | -     | 8.2   | 8.2   | 456.0 |
| 465.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 20.6  | 19.8  | 18.9  | 20.1  | 11.0  | 11.2  | -     | 17.0  | 14.7  | -     | -     | -     | -     | 465.9 |
| 472.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 18.5  | 17.0  | 16.3  | 17.6  | 8.4   | 8.8   | -     | 14.8  | 11.0  | -     | -     | -     | -     | 472.4 |
| 475.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 16.9  | 14.9  | 15.0  | 16.1  | -     | -     | -     | 12.9  | 8.8   | -     | -     | -     | -     | 475.7 |
| 479.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 15.2  | 12.8  | 13.6  | 14.6  | -     | -     | -     | 11.1  | -     | -     | -     | -     | -     | 479.0 |
| 482.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 13.6  | 10.7  | 12.2  | 13.0  | -     | -     | -     | 9.3   | -     | -     | -     | -     | -     | 482.3 |
| 485.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 11.9  | 8.6   | 10.9  | 11.5  | -     | -     | -     | -     | -     | -     | -     | -     | -     | 485.6 |
| 492.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | 8.6   | -     | 8.2   | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 492.1 |

 0 lb
 143,300 lb
 209,500 lb
 275,600 lb
 363,800 lb
 452,000 lb
 584,300 lb
 716,600 lb

LSL+LF\_10 - LSL+LF\_12:  36.1 ft - 68.9 ft

LSL+LF\_14:  42.7 ft - 68.9 ft

LSL+LF\_14:  496,100 lb +  110,200 lb



| <div> <div>496,100 lb +  110,200 lb</div> <div> 42.7-68.9 ft</div> <div> 27.6 ft</div> <div> 32.2 ft/s</div> <div>360°</div> <div>ASME B30.5</div> </div> |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <div> <div>295.3 ft</div> <div>305.1 ft</div> <div>315.0 ft</div> <div>324.8 ft</div> <div>334.6 ft</div> <div>344.5 ft</div> </div>                                                                                                                                                                                                                                                                                                                                                            |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| LSL+LF 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 59.0 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| <div> <div>0 lb</div> <div>0-716.6 klb</div> <div>0 lb</div> <div>0-716.6 klb</div> <div>0 lb</div> <div>0-716.6 klb</div> </div>                                                                                                                                                                                                                                                                                                                                                               |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| <div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> </div>                                                                                                                                                                                                                                                                                                |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1,000 lb |       |       |       |       |       |       |       |       |       |       |       |       |       | ft    |
| 52.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 262.4    | 264.6 | -     | 264.6 | -     | 266.8 | 266.8 | -     | -     | -     | -     | -     | -     | -     | 52.5  |
| 55.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 255.7    | 256.8 | -     | 257.9 | -     | 260.1 | 260.1 | -     | 262.4 | -     | 262.4 | 264.6 | -     | 264.6 | 55.8  |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 249.1    | 249.1 | 183.0 | 251.3 | 184.1 | 253.5 | 253.5 | 185.2 | 255.7 | -     | 255.7 | 257.9 | -     | 257.9 | 59.1  |
| 62.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 242.5    | 242.5 | 179.1 | 244.7 | 180.2 | 246.9 | 246.9 | 181.3 | 249.1 | 181.9 | 250.2 | 251.3 | 183.0 | 252.4 | 62.3  |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 235.9    | 235.9 | 175.3 | 238.1 | 176.4 | 240.3 | 240.3 | 177.5 | 242.5 | 178.6 | 244.7 | 244.7 | 179.7 | 246.9 | 65.6  |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 224.9    | 224.9 | 168.7 | 227.1 | 169.8 | 229.3 | 229.3 | 170.9 | 231.5 | 172.0 | 224.9 | 233.7 | 173.1 | 235.9 | 72.2  |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 215.0    | 215.0 | 162.0 | 217.2 | 163.1 | 212.7 | 219.4 | 164.2 | 220.5 | 165.3 | 203.9 | 222.7 | 166.4 | 224.9 | 78.7  |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 199.5    | 205.6 | 156.5 | 208.3 | 157.6 | 195.1 | 210.5 | 158.7 | 212.2 | 159.8 | 186.3 | 214.4 | 160.9 | 216.1 | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 184.1    | 196.2 | 151.0 | 199.5 | 152.1 | 177.5 | 201.7 | 153.2 | 203.9 | 154.3 | 168.7 | 206.1 | 155.4 | 207.2 | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 169.8    | 188.5 | 146.1 | 191.8 | 147.2 | 163.1 | 194.0 | 148.3 | 196.2 | 149.4 | 154.9 | 198.4 | 151.0 | 200.1 | 98.4  |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 143.9    | 174.2 | 136.7 | 177.5 | 137.8 | 137.2 | 179.7 | 139.4 | 181.9 | 140.5 | 130.1 | 184.1 | 142.2 | 186.3 | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 122.9    | 162.0 | 128.4 | 164.8 | 130.1 | 116.8 | 167.0 | 131.7 | 169.2 | 132.8 | 110.3 | 171.4 | 133.9 | 173.6 | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 106.0    | 151.8 | 121.6 | 154.0 | 123.5 | 100.5 | 156.2 | 124.6 | 158.4 | 125.7 | 94.2  | 160.6 | 126.8 | 162.8 | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 91.1     | 142.2 | 115.7 | 144.4 | 116.8 | 85.5  | 146.6 | 117.9 | 148.8 | 119.0 | 79.4  | 151.0 | 120.2 | 153.2 | 150.9 |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 77.1     | 134.1 | 110.3 | 136.3 | 111.6 | 72.8  | 138.5 | 112.8 | 140.7 | 113.9 | 67.8  | 142.9 | 115.0 | 145.1 | 164.0 |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 64.7     | 126.8 | 105.2 | 129.0 | 106.6 | 60.9  | 131.2 | 107.9 | 133.4 | 109.1 | 56.6  | 135.6 | 110.2 | 137.4 | 177.2 |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 53.8     | 120.2 | 100.5 | 122.4 | 101.9 | 50.0  | 124.6 | 103.2 | 126.8 | 104.5 | 45.9  | 129.0 | 105.6 | 130.1 | 190.3 |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 45.1     | 115.0 | 96.7  | 117.2 | 98.0  | 41.2  | 118.7 | 99.2  | 120.9 | 100.5 | 36.7  | 123.1 | 101.6 | 124.2 | 203.4 |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 37.3     | 110.2 | 93.2  | 112.3 | 94.4  | 33.3  | 113.6 | 95.5  | 115.4 | 96.8  | 28.8  | 117.6 | 97.9  | 118.7 | 216.5 |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 30.2     | 105.8 | 89.9  | 107.6 | 91.1  | 26.2  | 109.3 | 92.2  | 110.2 | 93.3  | 22.0  | 112.4 | 94.4  | 113.5 | 229.7 |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 24.3     | 101.9 | 87.2  | 103.5 | 88.3  | 20.2  | 105.2 | 89.2  | 106.6 | 90.3  | 15.6  | 108.3 | 91.4  | 109.7 | 242.8 |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 18.7     | 98.2  | 84.6  | 99.7  | 85.6  | 14.4  | 101.3 | 86.6  | 102.8 | 87.6  | 9.4   | 104.4 | 88.6  | 106.0 | 255.9 |
| 259.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 17.3     | 97.3  | 84.0  | 98.9  | 85.0  | 13.0  | 100.4 | 86.0  | 101.9 | 87.0  | 7.9   | 103.4 | 88.0  | 105.1 | 259.2 |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 13.2     | 94.8  | 82.2  | 96.3  | 83.1  | 8.8   | 97.7  | 84.2  | 99.2  | 85.1  | -     | 100.8 | 86.2  | 102.3 | 269.0 |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8.4      | 91.9  | 80.3  | 93.4  | 81.1  | -     | 94.7  | 82.1  | 96.1  | 83.0  | -     | 97.7  | 84.0  | 99.1  | 282.2 |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 89.4  | 78.7  | 90.8  | 79.5  | -     | 92.0  | 80.3  | 93.3  | 81.1  | -     | 94.7  | 82.0  | 96.0  | 295.3 |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 87.1  | 77.4  | 88.4  | 78.0  | -     | 89.5  | 78.7  | 90.6  | 79.4  | -     | 91.9  | 80.2  | 93.3  | 308.4 |
| 315.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 86.2  | -     | 87.5  | 77.4  | -     | 88.5  | 78.1  | 89.6  | 78.7  | -     | 90.8  | 79.5  | 92.1  | 315.0 |
| 318.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 85.8  | -     | 87.0  | -     | -     | 88.0  | 77.8  | 89.1  | 78.4  | -     | 90.3  | 79.1  | 91.5  | 318.2 |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -     | 86.5  | -     | -     | 87.5  | 77.5  | 88.6  | 78.0  | -     | 89.7  | 78.8  | 90.9  | 321.5 |
| 324.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -     | 86.0  | -     | -     | 86.9  | 77.2  | 88.0  | 77.7  | -     | 89.2  | 78.4  | 90.3  | 324.8 |
| 328.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -     | 85.5  | -     | -     | 86.4  | -     | 87.5  | 77.4  | -     | 88.6  | 78.0  | 89.7  | 328.1 |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -     | -     | -     | -     | 85.8  | -     | 86.6  | 76.9  | -     | 87.7  | 77.5  | 88.8  | 334.6 |
| 341.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -     | -     | -     | -     | -     | -     | 85.8  | -     | -     | 86.9  | 76.9  | 87.8  | 341.2 |
| 344.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -     | -     | -     | -     | -     | -     | 85.3  | -     | -     | 86.4  | -     | 87.3  | 344.5 |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 86.0  | -     | 86.9  | 347.8 |
| 351.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 85.5  | -     | 86.5  | 351.1 |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 85.3  | 360.9 |



0 lb

143,300 lb

209,500 lb

275,600 lb

363,800 lb

452,000 lb

584,300 lb

716,600 lb

| <div> <div>496,100 lb +  110,200 lb</div> <div> 42.7-68.9 ft</div> <div> 27.6 ft</div> <div> 32.2 ft/s</div> <div>360°</div> <div>ASME B30.5</div> </div> |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <div> <div>354.3 ft</div> <div>364.2 ft</div> <div>374.0 ft</div> <div>383.9 ft</div> <div>393.7 ft</div> <div>403.5 ft</div> </div>                                                                                                                                                                                                                                                                                                                                                            |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| LSL+LF 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 59.0 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| <div> <div>0 lb</div> <div>0-716.6 klb</div> <div>0 lb</div> <div>0-716.6 klb</div> <div>0 lb</div> <div>0-716.6 klb</div> </div>                                                                                                                                                                                                                                                                                                                                                               |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| <div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> </div>                                                                                                                                                                                                                                                                                                |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1,000 lb |       |       |       |       |       |       |       |       |       |       |       |       |       | ft    |
| 55.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -        | 266.8 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 55.8  |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 260.1    | 260.1 | -     | 262.4 | -     | 257.9 | 264.6 | -     | 264.6 | -     | -     | -     | -     | -     | 59.1  |
| 62.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 250.2    | 254.6 | 184.1 | 255.7 | -     | 243.6 | 257.9 | -     | 259.0 | -     | 233.7 | 260.1 | -     | 262.4 | 62.3  |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 240.3    | 249.1 | 180.8 | 249.1 | 181.9 | 229.3 | 251.3 | 183.0 | 253.5 | 183.0 | 220.5 | 255.7 | 184.1 | 255.7 | 65.6  |
| 68.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 228.2    | 243.6 | 177.5 | 243.6 | 178.6 | 218.3 | 245.8 | 179.7 | 248.0 | 180.2 | 209.4 | 250.2 | 180.8 | 250.2 | 68.9  |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 216.1    | 238.1 | 174.2 | 238.1 | 175.3 | 207.2 | 240.3 | 176.4 | 242.5 | 177.5 | 198.4 | 244.7 | 177.5 | 244.7 | 72.2  |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 196.2    | 227.1 | 168.7 | 229.3 | 169.8 | 187.4 | 231.5 | 170.9 | 231.5 | 170.9 | 179.7 | 233.7 | 172.0 | 235.9 | 78.7  |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 179.1    | 218.3 | 163.1 | 220.5 | 164.2 | 170.9 | 222.7 | 165.3 | 223.2 | 165.9 | 163.1 | 225.4 | 167.0 | 227.6 | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 162.0    | 209.4 | 157.6 | 211.6 | 158.7 | 154.3 | 213.8 | 159.8 | 215.0 | 160.9 | 146.6 | 217.2 | 162.0 | 219.4 | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 148.3    | 201.7 | 153.2 | 203.9 | 154.3 | 141.1 | 206.1 | 155.4 | 207.8 | 156.0 | 133.9 | 209.4 | 157.1 | 211.6 | 98.4  |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 124.0    | 187.4 | 144.4 | 189.6 | 145.5 | 117.4 | 191.8 | 146.6 | 194.0 | 147.2 | 111.0 | 195.1 | 148.3 | 197.3 | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 104.6    | 175.3 | 136.1 | 177.5 | 137.2 | 98.1  | 179.1 | 138.3 | 181.3 | 139.4 | 92.0  | 183.0 | 140.5 | 184.6 | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 88.4     | 165.0 | 129.3 | 166.8 | 130.4 | 82.2  | 168.3 | 131.5 | 170.5 | 132.6 | 76.4  | 172.3 | 133.7 | 173.8 | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 73.9     | 155.4 | 123.5 | 156.5 | 124.6 | 67.9  | 158.7 | 125.7 | 160.9 | 126.8 | 62.4  | 162.0 | 127.9 | 164.2 | 150.9 |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 62.4     | 146.6 | 117.6 | 148.4 | 118.7 | 56.6  | 150.6 | 119.8 | 152.1 | 120.9 | 51.2  | 154.0 | 122.0 | 156.2 | 164.0 |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 51.7     | 138.9 | 112.4 | 141.1 | 113.5 | 46.3  | 142.9 | 114.6 | 144.4 | 115.7 | 41.0  | 146.2 | 116.8 | 148.4 | 177.2 |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 41.9     | 132.3 | 108.0 | 134.5 | 109.1 | 37.0  | 135.6 | 110.2 | 137.8 | 111.3 | 31.7  | 138.9 | 112.4 | 141.1 | 190.3 |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 32.5     | 126.4 | 103.9 | 127.9 | 105.0 | 27.5  | 129.7 | 106.1 | 131.2 | 107.2 | 22.8  | 133.0 | 108.3 | 134.5 | 203.4 |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 24.4     | 120.9 | 100.1 | 122.0 | 101.2 | 18.8  | 124.2 | 102.3 | 125.3 | 103.3 | 14.3  | 127.4 | 104.4 | 129.0 | 216.5 |
| 226.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 19.3     | 117.0 | 97.4  | 118.1 | 98.5  | 13.0  | 120.3 | 99.6  | 121.4 | 100.6 | 8.4   | 123.5 | 101.7 | 124.9 | 226.4 |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 17.6     | 115.7 | 96.6  | 116.8 | 97.7  | 11.0  | 119.0 | 98.8  | 120.2 | 99.6  | -     | 122.4 | 100.8 | 123.5 | 229.7 |
| 236.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 14.4     | 113.7 | 95.0  | 114.6 | 96.1  | 9.3   | 116.8 | 97.2  | 117.9 | 98.2  | -     | 119.8 | 99.1  | 121.3 | 236.2 |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 11.2     | 111.6 | 93.5  | 112.4 | 94.5  | -     | 114.6 | 95.5  | 115.7 | 96.6  | -     | 117.2 | 97.5  | 119.0 | 242.8 |
| 249.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 7.9      | 109.6 | 91.9  | 110.2 | 93.0  | -     | 112.4 | 93.9  | 113.5 | 95.0  | -     | 114.6 | 95.9  | 116.8 | 249.3 |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 107.7 | 90.6  | 108.5 | 91.7  | -     | 110.5 | 92.6  | 111.7 | 93.6  | -     | 113.0 | 94.5  | 114.6 | 255.9 |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 103.8 | 88.0  | 105.2 | 89.1  | -     | 106.7 | 89.9  | 108.0 | 90.8  | -     | 109.6 | 91.7  | 110.2 | 269.0 |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 100.5 | 85.8  | 101.8 | 86.7  | -     | 103.2 | 87.6  | 104.6 | 88.5  | -     | 106.0 | 89.4  | 107.1 | 282.2 |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 97.4  | 83.7  | 98.6  | 84.5  | -     | 99.9  | 85.4  | 101.4 | 86.2  | -     | 102.7 | 87.1  | 104.0 | 295.3 |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 94.6  | 81.8  | 95.7  | 82.5  | -     | 97.0  | 83.3  | 98.3  | 84.0  | -     | 99.6  | 84.9  | 100.8 | 308.4 |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 92.1  | 80.2  | 93.2  | 80.8  | -     | 94.4  | 81.6  | 95.7  | 82.2  | -     | 96.9  | 83.1  | 98.0  | 321.5 |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 89.8  | 78.7  | 90.9  | 79.4  | -     | 91.9  | 80.0  | 93.2  | 80.6  | -     | 94.3  | 81.4  | 95.3  | 334.6 |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 87.7  | 77.4  | 88.8  | 78.0  | -     | 89.7  | 78.5  | 90.8  | 79.1  | -     | 91.9  | 79.8  | 93.0  | 347.8 |
| 357.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 86.5  | 76.7  | 87.5  | 77.3  | -     | 88.4  | 77.7  | 89.3  | 78.3  | -     | 90.4  | 78.8  | 91.5  | 357.6 |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 86.1  | -     | 87.1  | 77.0  | -     | 88.0  | 77.5  | 88.8  | 78.0  | -     | 89.9  | 78.5  | 91.0  | 360.9 |
| 367.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 85.3  | -     | 86.2  | 76.5  | -     | 87.1  | 76.9  | 88.0  | 77.4  | -     | 88.8  | 77.8  | 89.9  | 367.5 |
| 370.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 85.1  | -     | 85.8  | -     | -     | 86.6  | 76.7  | 87.5  | 77.2  | -     | 87.8  | 77.6  | 88.2  | 370.7 |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -     | 85.5  | -     | -     | 86.3  | 76.5  | 86.9  | 76.9  | -     | 86.7  | 77.4  | 86.4  | 374.0 |
| 377.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -     | 85.1  | -     | -     | 85.9  | -     | 86.4  | 76.7  | -     | 85.6  | 77.2  | 84.7  | 377.3 |
| 383.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -     | -     | -     | -     | 85.2  | -     | 85.4  | 76.3  | -     | 83.5  | 76.7  | 81.1  | 383.9 |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -     | -     | -     | -     | 84.9  | -     | 84.9  | -     | -     | 82.5  | 76.5  | 79.4  | 387.1 |
| 390.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -     | -     | -     | -     | -     | -     | 83.3  | -     | -     | 81.0  | 76.3  | 77.8  | 390.4 |
| 393.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -     | -     | -     | -     | -     | -     | 81.8  | -     | -     | 79.5  | -     | 76.3  | 393.7 |
| 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 76.5  | -     | 73.2  | 400.3 |
| 403.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 75.0  | -     | 71.7  | 403.5 |
| 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 67.2  | 413.4 |



0 lb

143,300 lb

209,500 lb

275,600 lb

363,800 lb

452,000 lb

584,300 lb

716,600 lb

|  496,100 lb +  110,200 lb |       |  42.7-68.9 ft |       |  27.6 ft |       |  32.2 ft/s |       | 360°     |       | ASME B30.5  |       |                  |       |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------|-------|----------|-------|-------------|-------|------------------|-------|-------|
|  413.4 ft                                                                                                  |       | 423.2 ft                                                                                       |       | 433.1 ft                                                                                  |       | 442.9 ft                                                                                      |       | 452.8 ft |       | 462.6 ft    |       | 472.4 ft         |       |       |
| LSL+LF 14                                                                                                                                                                                   |       |                                                                                                |       |                                                                                           |       |                                                                                               |       |          |       |             |       |                  |       |       |
|  59.0 ft                                                                                                   |       |                                                                                                |       |                                                                                           |       |                                                                                               |       |          |       |             |       |                  |       |       |
|  0 lb                                                                                                      |       | 0-716.6 klb                                                                                    |       | 0 lb                                                                                      |       | 0-716.6 klb                                                                                   |       | 0 lb     |       | 0-716.6 klb |       | 0 lb 0-716.6 klb |       |       |
|  15°                                                                                                       |       | 20° 15° 20°                                                                                    |       | 15° 20°                                                                                   |       | 15° 20°                                                                                       |       | 15°      |       | 20° 15° 20° |       | 15° 20°          |       |       |
| ft 1,000 lb                                                                                                                                                                                 |       |                                                                                                |       |                                                                                           |       |                                                                                               |       |          |       |             |       |                  |       |       |
| 62.3                                                                                                                                                                                        | 222.7 | 262.4                                                                                          | -     | 264.6                                                                                     | -     | -                                                                                             | -     | -        | -     | -           | -     | -                | -     | -     |
| 65.6                                                                                                                                                                                        | 210.5 | 257.9                                                                                          | -     | 260.1                                                                                     | -     | 201.7                                                                                         | 260.1 | -        | 262.4 | -           | 192.9 | 260.1            | -     | 257.9 |
| 68.9                                                                                                                                                                                        | 199.5 | 252.4                                                                                          | 181.9 | 254.6                                                                                     | 183.0 | 191.3                                                                                         | 254.6 | 183.0    | 256.8 | -           | 182.4 | 256.8            | -     | 257.9 |
| 72.2                                                                                                                                                                                        | 188.5 | 246.9                                                                                          | 178.6 | 249.1                                                                                     | 179.7 | 180.8                                                                                         | 249.1 | 180.8    | 251.3 | 180.8       | 172.0 | 253.5            | 181.9 | 253.5 |
| 78.7                                                                                                                                                                                        | 169.8 | 238.1                                                                                          | 173.1 | 238.1                                                                                     | 174.2 | 162.0                                                                                         | 240.3 | 175.3    | 242.5 | 175.3       | 153.2 | 242.5            | 176.4 | 244.7 |
| 85.3                                                                                                                                                                                        | 153.8 | 229.3                                                                                          | 168.1 | 230.4                                                                                     | 169.2 | 146.6                                                                                         | 231.5 | 170.3    | 233.7 | 170.3       | 138.3 | 234.8            | 171.4 | 235.9 |
| 91.9                                                                                                                                                                                        | 137.8 | 220.5                                                                                          | 163.1 | 222.7                                                                                     | 164.2 | 131.2                                                                                         | 222.7 | 165.3    | 224.9 | 165.3       | 123.5 | 227.1            | 166.4 | 227.1 |
| 98.4                                                                                                                                                                                        | 125.7 | 212.7                                                                                          | 158.7 | 215.0                                                                                     | 159.8 | 119.2                                                                                         | 215.5 | 160.9    | 217.7 | 160.9       | 111.8 | 219.4            | 162.0 | 220.5 |
| 111.5                                                                                                                                                                                       | 103.3 | 199.0                                                                                          | 150.5 | 200.6                                                                                     | 151.0 | 97.0                                                                                          | 202.3 | 152.1    | 203.9 | 152.7       | 90.2  | 205.6            | 153.8 | 207.2 |
| 124.7                                                                                                                                                                                       | 84.5  | 186.8                                                                                          | 142.7 | 188.5                                                                                     | 143.3 | 78.5                                                                                          | 190.1 | 144.4    | 191.8 | 145.5       | 72.0  | 193.5            | 146.1 | 195.1 |
| 137.8                                                                                                                                                                                       | 69.1  | 176.0                                                                                          | 135.6 | 177.8                                                                                     | 136.7 | 63.3                                                                                          | 179.3 | 137.8    | 181.1 | 138.9       | 57.0  | 182.6            | 139.3 | 184.5 |
| 150.9                                                                                                                                                                                       | 55.1  | 166.4                                                                                          | 129.0 | 167.6                                                                                     | 130.1 | 49.8                                                                                          | 169.8 | 131.2    | 170.9 | 132.3       | 43.7  | 173.1            | 133.4 | 174.2 |
| 164.0                                                                                                                                                                                       | 44.1  | 157.6                                                                                          | 123.8 | 159.5                                                                                     | 124.9 | 38.8                                                                                          | 160.9 | 126.0    | 162.8 | 127.1       | 32.9  | 164.2            | 127.5 | 165.3 |
| 177.2                                                                                                                                                                                       | 34.1  | 149.5                                                                                          | 118.7 | 151.8                                                                                     | 119.8 | 28.9                                                                                          | 152.9 | 120.9    | 155.1 | 122.0       | 23.1  | 156.2            | 122.4 | 157.3 |
| 190.3                                                                                                                                                                                       | 25.1  | 142.2                                                                                          | 113.5 | 144.4                                                                                     | 114.6 | 20.1                                                                                          | 145.5 | 115.7    | 147.7 | 116.8       | 14.3  | 148.8            | 117.9 | 149.9 |
| 200.1                                                                                                                                                                                       | 18.7  | 137.8                                                                                          | 110.9 | 139.4                                                                                     | 111.9 | 13.9                                                                                          | 141.1 | 113.0    | 142.7 | 113.5       | 8.4   | 144.4            | 114.6 | 145.7 |
| 203.4                                                                                                                                                                                       | 16.6  | 136.3                                                                                          | 110.0 | 137.8                                                                                     | 111.0 | 11.8                                                                                          | 139.6 | 112.1    | 141.1 | 112.4       | -     | 142.6            | 113.5 | 144.2 |
| 210.0                                                                                                                                                                                       | 12.3  | 133.4                                                                                          | 108.2 | 134.5                                                                                     | 109.1 | 7.7                                                                                           | 136.7 | 110.2    | 137.8 | 110.2       | -     | 138.9            | 111.3 | 141.1 |
| 216.5                                                                                                                                                                                       | 8.2   | 130.1                                                                                          | 106.3 | 131.9                                                                                     | 107.3 | -                                                                                             | 133.7 | 108.2    | 135.2 | 108.6       | -     | 136.3            | 109.6 | 138.2 |
| 229.7                                                                                                                                                                                       | -     | 125.7                                                                                          | 102.7 | 126.8                                                                                     | 103.6 | -                                                                                             | 127.9 | 104.5    | 130.1 | 105.4       | -     | 131.2            | 106.3 | 132.3 |
| 242.8                                                                                                                                                                                       | -     | 120.5                                                                                          | 99.5  | 121.6                                                                                     | 100.4 | -                                                                                             | 123.5 | 101.3    | 124.9 | 102.1       | -     | 126.0            | 103.0 | 127.1 |
| 255.9                                                                                                                                                                                       | -     | 115.7                                                                                          | 96.4  | 117.2                                                                                     | 97.3  | -                                                                                             | 119.0 | 98.2     | 120.2 | 99.1        | -     | 121.3            | 99.9  | 122.7 |
| 269.0                                                                                                                                                                                       | -     | 111.3                                                                                          | 93.5  | 113.5                                                                                     | 94.4  | -                                                                                             | 114.6 | 95.2     | 115.7 | 96.1        | -     | 116.8            | 97.0  | 119.0 |
| 282.2                                                                                                                                                                                       | -     | 108.7                                                                                          | 91.1  | 110.0                                                                                     | 91.9  | -                                                                                             | 111.3 | 92.8     | 111.9 | 93.6        | -     | 113.5            | 94.4  | 114.6 |
| 295.3                                                                                                                                                                                       | -     | 105.3                                                                                          | 88.7  | 106.6                                                                                     | 89.5  | -                                                                                             | 107.7 | 90.3     | 108.8 | 91.2        | -     | 109.9            | 91.9  | 111.3 |
| 308.4                                                                                                                                                                                       | -     | 102.1                                                                                          | 86.4  | 103.2                                                                                     | 87.3  | -                                                                                             | 104.5 | 88.0     | 105.8 | 88.8        | -     | 106.9            | 89.5  | 108.0 |
| 321.5                                                                                                                                                                                       | -     | 99.3                                                                                           | 84.5  | 100.4                                                                                     | 85.3  | -                                                                                             | 101.4 | 86.1     | 102.7 | 86.8        | -     | 103.8            | 87.5  | 102.0 |
| 334.6                                                                                                                                                                                       | -     | 96.6                                                                                           | 82.7  | 97.7                                                                                      | 83.4  | -                                                                                             | 98.2  | 84.2     | 97.7  | 84.9        | -     | 97.4             | 85.5  | 94.1  |
| 347.8                                                                                                                                                                                       | -     | 94.1                                                                                           | 81.1  | 95.2                                                                                      | 81.8  | -                                                                                             | 94.4  | 82.5     | 90.6  | 83.1        | -     | 88.6             | 83.8  | 84.4  |
| 360.9                                                                                                                                                                                       | -     | 90.5                                                                                           | 79.7  | 88.4                                                                                      | 80.3  | -                                                                                             | 86.5  | 80.9     | 82.8  | 80.8        | -     | 81.1             | 80.0  | 76.9  |
| 374.0                                                                                                                                                                                       | -     | 84.9                                                                                           | 78.3  | 81.1                                                                                      | 77.9  | -                                                                                             | 79.1  | 77.7     | 75.4  | 76.1        | -     | 73.9             | 74.5  | 69.7  |
| 387.1                                                                                                                                                                                       | -     | 77.8                                                                                           | 77.4  | 74.1                                                                                      | 74.5  | -                                                                                             | 72.1  | 72.5     | 68.3  | 69.0        | -     | 66.8             | 67.5  | 62.8  |
| 400.3                                                                                                                                                                                       | -     | 71.5                                                                                           | 71.7  | 67.8                                                                                      | 68.0  | -                                                                                             | 65.5  | 66.0     | 61.8  | 62.4        | -     | 60.5             | 61.2  | 56.7  |
| 406.8                                                                                                                                                                                       | -     | 68.3                                                                                           | 68.8  | 64.6                                                                                      | 64.8  | -                                                                                             | 62.4  | 62.8     | 58.6  | 59.3        | -     | 57.3             | 58.0  | 53.6  |
| 413.4                                                                                                                                                                                       | -     | 65.5                                                                                           | -     | 61.6                                                                                      | 62.1  | -                                                                                             | 59.5  | 60.0     | 55.8  | 56.4        | -     | 54.5             | 55.1  | 50.6  |
| 416.7                                                                                                                                                                                       | -     | 64.0                                                                                           | -     | 60.2                                                                                      | 60.6  | -                                                                                             | 58.1  | 58.6     | 54.3  | 55.0        | -     | 53.0             | 53.7  | 49.2  |
| 419.9                                                                                                                                                                                       | -     | 62.6                                                                                           | -     | 58.8                                                                                      | -     | -                                                                                             | 56.7  | 57.2     | 52.9  | 53.6        | -     | 51.6             | 52.2  | 47.8  |
| 423.2                                                                                                                                                                                       | -     | -                                                                                              | -     | 57.4                                                                                      | -     | -                                                                                             | 55.2  | 55.8     | 51.5  | 52.1        | -     | 50.2             | 50.8  | 46.4  |
| 426.5                                                                                                                                                                                       | -     | -                                                                                              | -     | 56.0                                                                                      | -     | -                                                                                             | 53.8  | -        | 50.0  | 50.7        | -     | 48.7             | 49.4  | 45.0  |
| 429.8                                                                                                                                                                                       | -     | -                                                                                              | -     | 54.9                                                                                      | -     | -                                                                                             | 52.5  | -        | 48.7  | 49.4        | -     | 47.4             | 48.1  | 43.7  |
| 433.1                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | 51.3  | -        | 47.4  | 48.1        | -     | 46.2             | 46.7  | 42.4  |
| 436.4                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | 50.0  | -        | 46.2  | -           | -     | 44.9             | 45.4  | 41.1  |
| 439.6                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | -        | 45.0  | -           | -     | 43.7             | 44.1  | 39.8  |
| 446.2                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | -        | 42.5  | -           | -     | 41.2             | -     | 37.3  |
| 449.5                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | -        | -     | -           | -     | 40.1             | -     | 36.1  |
| 452.8                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | -        | -     | -           | -     | 38.9             | -     | 35.0  |
| 456.0                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | -        | -     | -           | -     | 37.7             | -     | 33.8  |
| 462.6                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | -        | -     | -           | -     | -                | -     | 31.5  |
| 465.9                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | -        | -     | -           | -     | -                | -     | -     |
| 472.4                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | -        | -     | -           | -     | -                | -     | -     |

|  496,100 lb +  110,200 lb |       |  42.7-68.9 ft |       |  27.6 ft |       |  32.2 ft/s |       | 360°        |       | ASME B30.5 |       |             |       |       |       |                                                                                     |       |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------|-------|-------------|-------|------------|-------|-------------|-------|-------|-------|-------------------------------------------------------------------------------------|-------|-------|
|  482.3 ft                                                                                                  |       | 492.1 ft                                                                                       |       | 502.0 ft                                                                                  |       | 511.8 ft                                                                                      |       | 521.7 ft    |       | 531.5 ft   |       | 541.3 ft    |       |       |       |                                                                                     |       |       |
| LSL+LF_14                                                                                                                                                                                   |       |                                                                                                |       |                                                                                           |       |                                                                                               |       |             |       |            |       |             |       |       |       |                                                                                     |       |       |
| 59.0 ft                                                                                                                                                                                     |       |                                                                                                |       |                                                                                           |       |                                                                                               |       |             |       |            |       |             |       |       |       |                                                                                     |       |       |
|  0-716.6 klb                                                                                               |       | 0 lb                                                                                           |       | 0-716.6 klb                                                                               |       | 0 lb                                                                                          |       | 0-716.6 klb |       | 0 lb       |       | 0-716.6 klb |       |       |       |                                                                                     |       |       |
|  15°                                                                                                       |       | 20°                                                                                            |       | 15°                                                                                       |       | 20°                                                                                           |       | 15°         |       | 20°        |       | 15°         |       | 20°   |       |  |       |       |
| ft                                                                                                                                                                                          |       |                                                                                                |       |                                                                                           |       |                                                                                               |       |             |       |            |       |             |       |       |       |                                                                                     |       |       |
| 1,000 lb                                                                                                                                                                                    |       |                                                                                                |       |                                                                                           |       |                                                                                               |       |             |       |            |       |             |       |       |       |                                                                                     |       |       |
| ft                                                                                                                                                                                          |       |                                                                                                |       |                                                                                           |       |                                                                                               |       |             |       |            |       |             |       |       |       |                                                                                     |       |       |
| 68.9                                                                                                                                                                                        | 238.1 | -                                                                                              | 170.9 | 227.1                                                                                     | -     | 217.2                                                                                         | -     | -           | -     | -          | -     | -           | -     | -     | -     | 68.9                                                                                |       |       |
| 72.2                                                                                                                                                                                        | 238.1 | -                                                                                              | 160.9 | 227.1                                                                                     | -     | 217.2                                                                                         | -     | 153.2       | 208.3 | -          | 199.5 | -           | 145.5 | 191.8 | -     | 183.0                                                                               | -     | 72.2  |
| 75.5                                                                                                                                                                                        | 238.1 | 180.8                                                                                          | 152.7 | 227.1                                                                                     | 180.8 | 217.2                                                                                         | 181.9 | 145.0       | 208.3 | 181.9      | 199.5 | -           | 137.8 | 191.8 | -     | 183.0                                                                               | -     | 75.5  |
| 78.7                                                                                                                                                                                        | 238.1 | 177.5                                                                                          | 144.4 | 227.1                                                                                     | 178.6 | 217.2                                                                                         | 178.6 | 136.7       | 208.3 | 179.7      | 199.5 | 179.7       | 130.1 | 191.8 | 177.5 | 183.0                                                                               | 169.8 | 78.7  |
| 85.3                                                                                                                                                                                        | 234.8 | 173.1                                                                                          | 130.1 | 227.1                                                                                     | 173.6 | 217.2                                                                                         | 174.2 | 123.0       | 208.3 | 174.7      | 199.5 | 175.3       | 116.4 | 191.8 | 174.2 | 183.0                                                                               | 169.4 | 85.3  |
| 91.9                                                                                                                                                                                        | 231.5 | 168.7                                                                                          | 115.7 | 227.1                                                                                     | 168.7 | 217.2                                                                                         | 169.8 | 109.3       | 208.3 | 169.8      | 199.5 | 170.9       | 102.7 | 191.8 | 170.9 | 183.0                                                                               | 168.7 | 91.9  |
| 98.4                                                                                                                                                                                        | 223.8 | 164.2                                                                                          | 104.4 | 222.7                                                                                     | 164.8 | 216.6                                                                                         | 165.3 | 98.0        | 207.8 | 165.9      | 199.0 | 166.4       | 91.7  | 191.3 | 167.0 | 182.4                                                                               | 166.4 | 98.4  |
| 111.5                                                                                                                                                                                       | 210.0 | 156.0                                                                                          | 83.6  | 211.6                                                                                     | 157.1 | 211.1                                                                                         | 157.1 | 77.4        | 205.6 | 158.2      | 196.8 | 158.7       | 71.5  | 189.0 | 159.3 | 180.8                                                                               | 160.4 | 111.5 |
| 124.7                                                                                                                                                                                       | 197.9 | 148.8                                                                                          | 66.1  | 199.5                                                                                     | 149.4 | 200.6                                                                                         | 149.9 | 60.3        | 200.1 | 151.0      | 193.5 | 151.6       | 54.7  | 186.3 | 152.1 | 178.0                                                                               | 153.2 | 124.7 |
| 137.8                                                                                                                                                                                       | 187.0 | 142.2                                                                                          | 51.7  | 188.9                                                                                     | 142.6 | 190.0                                                                                         | 143.7 | 46.1        | 191.4 | 144.4      | 189.6 | 144.8       | 40.6  | 182.6 | 145.9 | 175.3                                                                               | 146.6 | 137.8 |
| 150.9                                                                                                                                                                                       | 177.5 | 135.6                                                                                          | 38.8  | 178.6                                                                                     | 136.7 | 179.7                                                                                         | 137.8 | 33.3        | 181.9 | 137.8      | 183.0 | 138.9       | 28.0  | 177.5 | 140.0 | 170.9                                                                               | 140.0 | 150.9 |
| 164.0                                                                                                                                                                                       | 168.7 | 130.4                                                                                          | 28.2  | 169.8                                                                                     | 131.5 | 171.6                                                                                         | 131.9 | 23.0        | 173.1 | 132.6      | 174.2 | 133.7       | 17.9  | 171.6 | 134.1 | 165.3                                                                               | 134.8 | 164.0 |
| 177.2                                                                                                                                                                                       | 160.7 | 125.3                                                                                          | 18.7  | 161.7                                                                                     | 126.4 | 163.6                                                                                         | 126.8 | 13.4        | 164.8 | 127.9      | 166.1 | 128.4       | 8.2   | 165.3 | 129.0 | 160.2                                                                               | 130.1 | 177.2 |
| 183.7                                                                                                                                                                                       | 157.2 | 122.7                                                                                          | 14.4  | 158.0                                                                                     | 123.8 | 159.6                                                                                         | 124.6 | 9.0         | 160.9 | 125.7      | 162.4 | 125.7       | -     | 162.6 | 126.8 | 157.3                                                                               | 127.9 | 183.7 |
| 190.3                                                                                                                                                                                       | 153.2 | 120.2                                                                                          | 10.1  | 154.3                                                                                     | 121.3 | 156.5                                                                                         | 122.4 | -           | 157.6 | 123.5      | 158.7 | 123.5       | -     | 159.8 | 124.6 | 154.3                                                                               | 125.7 | 190.3 |
| 193.6                                                                                                                                                                                       | 151.6 | 119.2                                                                                          | 8.2   | 153.2                                                                                     | 120.2 | 154.9                                                                                         | 121.3 | -           | 156.0 | 122.4      | 157.1 | 122.4       | -     | 158.2 | 123.5 | 153.0                                                                               | 124.6 | 193.6 |
| 203.4                                                                                                                                                                                       | 146.6 | 116.5                                                                                          | -     | 148.6                                                                                     | 116.8 | 149.9                                                                                         | 117.9 | -           | 151.0 | 119.0      | 152.1 | 119.0       | -     | 153.2 | 120.2 | 149.2                                                                               | 121.3 | 203.4 |
| 216.5                                                                                                                                                                                       | 140.7 | 112.7                                                                                          | -     | 142.6                                                                                     | 113.0 | 143.7                                                                                         | 113.9 | -           | 144.8 | 115.0      | 145.9 | 115.0       | -     | 147.3 | 116.2 | 144.0                                                                               | 117.3 | 216.5 |
| 229.7                                                                                                                                                                                       | 135.6 | 108.9                                                                                          | -     | 136.7                                                                                     | 109.8 | 137.8                                                                                         | 110.2 | -           | 138.9 | 111.3      | 140.0 | 111.3       | -     | 142.2 | 112.4 | 138.9                                                                               | 113.5 | 229.7 |
| 242.8                                                                                                                                                                                       | 130.4 | 105.6                                                                                          | -     | 131.5                                                                                     | 106.4 | 132.6                                                                                         | 107.1 | -           | 133.7 | 108.0      | 135.6 | 108.7       | -     | 136.3 | 109.4 | 132.7                                                                               | 110.2 | 242.8 |
| 255.9                                                                                                                                                                                       | 125.7 | 102.4                                                                                          | -     | 126.8                                                                                     | 103.2 | 127.9                                                                                         | 104.1 | -           | 129.0 | 104.9      | 130.8 | 105.6       | -     | 130.4 | 106.3 | 127.3                                                                               | 107.0 | 255.9 |
| 269.0                                                                                                                                                                                       | 121.3 | 99.4                                                                                           | -     | 122.4                                                                                     | 100.3 | 123.5                                                                                         | 101.0 | -           | 124.6 | 101.9      | 125.7 | 102.5       | -     | 124.6 | 103.2 | 122.4                                                                               | 104.1 | 269.0 |
| 282.2                                                                                                                                                                                       | 117.6 | 96.8                                                                                           | -     | 118.7                                                                                     | 97.5  | 119.8                                                                                         | 98.3  | -           | 121.0 | 99.1       | 120.9 | 99.7        | -     | 117.5 | 100.5 | 113.2                                                                               | 101.3 | 282.2 |
| 295.3                                                                                                                                                                                       | 112.3 | 94.3                                                                                           | -     | 115.1                                                                                     | 94.9  | 115.7                                                                                         | 95.8  | -           | 114.6 | 96.4       | 111.0 | 97.1        | -     | 108.8 | 98.0  | 104.1                                                                               | 98.5  | 295.3 |
| 308.4                                                                                                                                                                                       | 105.4 | 91.9                                                                                           | -     | 111.3                                                                                     | 92.6  | 108.2                                                                                         | 93.3  | -           | 105.8 | 93.9       | 101.6 | 94.6        | -     | 99.4  | 95.5  | 95.0                                                                                | 96.1  | 308.4 |
| 321.5                                                                                                                                                                                       | 95.8  | 89.7                                                                                           | -     | 102.5                                                                                     | 90.4  | 98.7                                                                                          | 91.1  | -           | 96.6  | 91.8       | 92.5  | 92.4        | -     | 90.6  | 92.0  | 86.3                                                                                | 89.4  | 321.5 |
| 334.6                                                                                                                                                                                       | 86.8  | 85.6                                                                                           | -     | 93.7                                                                                      | 88.4  | 89.9                                                                                          | 87.6  | -           | 87.9  | 87.6       | 83.8  | 86.9        | -     | 82.1  | 85.8  | 77.9                                                                                | 81.7  | 334.6 |
| 347.8                                                                                                                                                                                       | 78.3  | 79.6                                                                                           | -     | 85.1                                                                                      | 86.2  | 81.4                                                                                          | 82.9  | -           | 79.4  | 81.6       | 75.4  | 78.3        | -     | 73.9  | 76.9  | 69.9                                                                                | 73.0  | 347.8 |
| 360.9                                                                                                                                                                                       | 70.7  | 72.0                                                                                           | -     | 77.5                                                                                      | 78.7  | 73.4                                                                                          | 75.0  | -           | 71.4  | 72.8       | 67.6  | 69.2        | -     | 66.1  | 67.9  | 62.2                                                                                | 64.4  | 360.9 |
| 374.0                                                                                                                                                                                       | 63.7  | 64.9                                                                                           | -     | 70.3                                                                                      | 71.5  | 66.4                                                                                          | 67.5  | -           | 64.3  | 65.5       | 60.3  | 61.5        | -     | 58.6  | 60.0  | 54.9                                                                                | 55.9  | 374.0 |
| 387.1                                                                                                                                                                                       | 57.1  | 58.0                                                                                           | -     | 63.7                                                                                      | 64.6  | 59.7                                                                                          | 60.8  | -           | 57.5  | 58.9       | 53.6  | 54.9        | -     | 51.6  | 53.1  | 47.8                                                                                | 49.2  | 387.1 |
| 400.3                                                                                                                                                                                       | 50.7  | 51.6                                                                                           | -     | 57.5                                                                                      | 58.3  | 53.7                                                                                          | 54.7  | -           | 51.4  | 52.5       | 47.5  | 48.7        | -     | 45.7  | 47.0  | 41.8                                                                                | 43.1  | 400.3 |
| 413.4                                                                                                                                                                                       | 44.8  | 45.6                                                                                           | -     | 51.6                                                                                      | 52.2  | 47.8                                                                                          | 48.6  | -           | 45.7  | 46.5       | 41.7  | 42.8        | -     | 40.1  | 41.1  | 36.2                                                                                | 37.3  | 413.4 |
| 426.5                                                                                                                                                                                       | 39.2  | 39.9                                                                                           | -     | 45.9                                                                                      | 46.5  | 42.1                                                                                          | 42.8  | -           | 40.1  | 40.8       | 36.2  | 37.0        | -     | 34.6  | 35.5  | 30.9                                                                                | 31.7  | 426.5 |
| 439.6                                                                                                                                                                                       | 34.1  | 34.6                                                                                           | -     | 40.7                                                                                      | 41.2  | 37.0                                                                                          | 37.6  | -           | 35.0  | 35.6       | 31.2  | 31.9        | -     | 29.5  | 30.4  | 24.5                                                                                | 25.8  | 439.6 |
| 452.8                                                                                                                                                                                       | 29.1  | 29.6                                                                                           | -     | 35.8                                                                                      | 36.2  | 32.0                                                                                          | 32.7  | -           | 30.0  | 30.6       | 26.2  | 26.9        | -     | 23.8  | 24.5  | 17.2                                                                                | 18.0  | 452.8 |
| 465.9                                                                                                                                                                                       | 24.5  | 24.9                                                                                           | -     | 31.1                                                                                      | 31.5  | 27.3                                                                                          | 28.0  | -           | 25.4  | 25.8       | 21.6  | 22.0        | -     | 17.6  | 18.1  | 10.1                                                                                | 10.4  | 465.9 |
| 469.2                                                                                                                                                                                       | 23.4  | -                                                                                              | -     | 30.0                                                                                      | 30.5  | 26.2                                                                                          | 26.9  | -           | 24.3  | 24.7       | 20.2  | 20.8        | -     | 16.1  | 16.6  | 8.6                                                                                 | 8.8   | 469.2 |
| 472.4                                                                                                                                                                                       | 22.4  | -                                                                                              | -     | 29.0                                                                                      | 29.5  | 25.2                                                                                          | 25.8  | -           | 23.2  | 23.7       | 18.7  | 19.5        | -     | 14.6  | 15.1  | -                                                                                   | -     | 472.4 |
| 479.0                                                                                                                                                                                       | 20.3  | -                                                                                              | -     | 26.9                                                                                      | -     | 23.1                                                                                          | 23.6  | -           | 21.1  | 21.5       | 15.9  | 16.9        | -     | 11.5  | 12.2  | -                                                                                   | -     | 479.0 |
| 482.3                                                                                                                                                                                       | -     | -                                                                                              | -     | 25.8                                                                                      | -     | 22.0                                                                                          | 22.5  | -           | 20.0  | 20.5       | 14.4  | 15.6        | -     | 9.9   | 10.7  | -                                                                                   | -     | 482.3 |
| 485.6                                                                                                                                                                                       | -     | -                                                                                              | -     | 24.7                                                                                      | -     | 20.9                                                                                          | -     | -           | 19.0  | 19.4       | 13.0  | 14.3        | -     | 8.4   | 9.3   | -                                                                                   | -     | 485.6 |
| 488.8                                                                                                                                                                                       | -     | -                                                                                              | -     | 23.8                                                                                      | -     | 20.0                                                                                          | -     | -           | 18.0  | 18.5       | 11.8  | 13.1        | -     | -     | 7.9   | -                                                                                   | -     | 488.8 |
| 492.1                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | 19.1                                                                                          | -     | -           | 17.0  | -          | 10.6  | 11.8        | -     | -     | -     | -                                                                                   | -     | 492.1 |
| 495.4                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | 18.1                                                                                          | -     | -           | 16.1  | -          | 9.4   | 10.6        | -     | -     | -     | -                                                                                   | -     | 495.4 |
| 498.7                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | 17.2                                                                                          | -     | -           | 15.1  | -          | 8.2   | -           | -     | -     | -     | -                                                                                   | -     | 498.7 |
| 505.3                                                                                                                                                                                       | -     | -                                                                                              | -     | -                                                                                         | -     | -                                                                                             | -     | -           | 13.2  | -          | -     | -           | -     | -     | -     | -                                                                                   | -     | 505.3 |

|  |      |            |            |            |            |            |            |            |
|--|------|------------|------------|------------|------------|------------|------------|------------|
|  | 0 lb | 143,300 lb | 209,500 lb | 275,600 lb | 363,800 lb | 452,000 lb | 584,300 lb | 716,600 lb |
|--|------|------------|------------|------------|------------|------------|------------|------------|





| 363,800 lb + 110,200 lb 36.1-68.9 ft 27.6 ft 32.2 ft/s 360° ASME B30.5  |       |       |       |      |       |       |       |       |       |       |       |      |   |       |       |       |   |       |       |
|-------------------------------------------------------------------------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|------|---|-------|-------|-------|---|-------|-------|
| 315.0 ft 324.8 ft 334.6 ft 344.5 ft                                     |       |       |       |      |       |       |       |       |       |       |       |      |   |       |       |       |   |       |       |
| LSL+LF_2 LSL+LF_14 LSL+LF_2 LSL+LF_4 LSL+LF_14 LSL+LF_4 LSL+LF_14       |       |       |       |      |       |       |       |       |       |       |       |      |   |       |       |       |   |       |       |
| 78.7 ft                                                                 |       |       |       |      |       |       |       |       |       |       |       |      |   |       |       |       |   |       |       |
| 0 lb 0-716.6 klb 0 lb 0-716.6 klb                                       |       |       |       |      |       |       |       |       |       |       |       |      |   |       |       |       |   |       |       |
| 15° 20° 30° 15° 20° 15° 20° 15° 20° 30° 15° 20° 15° 20° 15° 20° 15° 20° |       |       |       |      |       |       |       |       |       |       |       |      |   |       |       |       |   |       |       |
| ft 1,000 lb ft                                                          |       |       |       |      |       |       |       |       |       |       |       |      |   |       |       |       |   |       |       |
| 59.1                                                                    | 184.1 | 185.2 | -     | -    | -     | -     | -     | -     | -     | -     | -     | -    | - | -     | -     | -     | - | -     | 59.1  |
| 62.3                                                                    | 180.2 | 181.3 | -     | -    | 192.9 | -     | 194.0 | -     | 180.8 | 183.0 | -     | -    | - | 195.1 | -     | -     | - | 197.3 | 62.3  |
| 65.6                                                                    | 176.4 | 177.5 | 137.8 | -    | 188.5 | -     | 189.6 | -     | 177.5 | 178.6 | -     | -    | - | 190.7 | -     | -     | - | 191.8 | 65.6  |
| 68.9                                                                    | 172.5 | 173.6 | 135.6 | -    | 184.1 | 134.5 | 185.2 | 135.6 | 174.2 | 175.3 | 136.7 | -    | - | 125.7 | 186.3 | 135.6 | - | 125.7 | 187.4 |
| 72.2                                                                    | 168.7 | 169.8 | 133.4 | -    | 179.7 | 132.3 | 180.8 | 132.3 | 170.9 | 172.0 | 134.5 | -    | - | 123.5 | 181.9 | 133.4 | - | 123.5 | 183.0 |
| 78.7                                                                    | 162.0 | 163.1 | 127.9 | 82.0 | 170.9 | 126.8 | 172.0 | 127.9 | 164.2 | 165.3 | 130.1 | 82.2 | - | 119.0 | 174.2 | 129.0 | - | 120.2 | 175.3 |
| 85.3                                                                    | 155.4 | 156.5 | 123.5 | 79.8 | 163.7 | 122.4 | 164.8 | 123.5 | 155.4 | 158.7 | 125.7 | 80.2 | - | 115.7 | 167.0 | 124.6 | - | 115.7 | 168.1 |
| 91.9                                                                    | 148.8 | 151.0 | 119.0 | 77.8 | 156.5 | 117.9 | 157.6 | 119.0 | 142.2 | 153.2 | 121.3 | 78.3 | - | 111.3 | 159.8 | 120.2 | - | 112.4 | 160.9 |
| 98.4                                                                    | 136.7 | 145.5 | 115.7 | 76.1 | 150.5 | 114.1 | 151.6 | 115.2 | 130.1 | 147.7 | 116.8 | 76.5 | - | 108.7 | 153.8 | 116.3 | - | 109.3 | 154.9 |
| 111.5                                                                   | 117.4 | 135.2 | 108.7 | 72.7 | 138.9 | 107.3 | 140.5 | 108.2 | 111.6 | 137.4 | 110.2 | 73.3 | - | 102.4 | 142.2 | 109.2 | - | 103.2 | 143.3 |
| 124.7                                                                   | 100.5 | 125.7 | 102.2 | 69.5 | 129.0 | 101.3 | 130.6 | 102.2 | 95.2  | 128.2 | 104.0 | 70.2 | - | 96.8  | 132.3 | 103.1 | - | 97.6  | 133.4 |
| 137.8                                                                   | 86.0  | 116.8 | 96.3  | 66.6 | 120.9 | 95.8  | 122.0 | 96.6  | 80.9  | 120.2 | 98.1  | 67.2 | - | 91.9  | 123.8 | 97.5  | - | 92.6  | 125.3 |
| 150.9                                                                   | 74.7  | 110.5 | 91.3  | 63.8 | 113.5 | 90.6  | 114.6 | 91.5  | 69.7  | 113.5 | 93.3  | 64.6 | - | 87.5  | 115.7 | 92.4  | - | 88.3  | 117.9 |
| 164.0                                                                   | 64.3  | 104.5 | 86.7  | 61.2 | 107.1 | 86.2  | 108.5 | 87.1  | 59.7  | 107.3 | 88.7  | 62.1 | - | 83.4  | 109.9 | 88.0  | - | 84.3  | 111.5 |
| 177.2                                                                   | 54.9  | 98.8  | 82.5  | 58.9 | 101.2 | 82.2  | 102.7 | 83.0  | 50.7  | 101.4 | 84.4  | 59.7 | - | 79.6  | 104.2 | 83.9  | - | 80.5  | 105.5 |
| 190.3                                                                   | 46.4  | 93.8  | 78.9  | 57.0 | 95.9  | 78.5  | 97.2  | 79.4  | 42.6  | 96.6  | 80.8  | 57.7 | - | 76.2  | 98.8  | 80.2  | - | 77.1  | 100.1 |
| 203.4                                                                   | 38.7  | 89.2  | 75.6  | 55.1 | 91.3  | 75.3  | 92.7  | 76.1  | 35.2  | 92.0  | 77.4  | 55.9 | - | 73.0  | 94.1  | 77.0  | - | 73.9  | 95.4  |
| 216.5                                                                   | 32.0  | 85.1  | 72.5  | 53.4 | 87.2  | 72.2  | 88.4  | 73.1  | 28.4  | 87.7  | 74.3  | 54.2 | - | 69.9  | 89.7  | 74.0  | - | 71.0  | 91.1  |
| 229.7                                                                   | 26.4  | 81.6  | 69.9  | 51.9 | 83.3  | 69.4  | 84.4  | 70.3  | 22.7  | 84.1  | 71.7  | 52.6 | - | 67.4  | 85.8  | 71.2  | - | 68.3  | 87.1  |
| 242.8                                                                   | 21.2  | 78.3  | 67.4  | 50.5 | 80.0  | 67.1  | 81.1  | 68.0  | 17.6  | 80.6  | 69.2  | 51.2 | - | 65.1  | 82.4  | 68.7  | - | 66.0  | 83.6  |
| 255.9                                                                   | 16.5  | 75.2  | 65.0  | 49.2 | 76.8  | 64.9  | 77.9  | 65.8  | 13.0  | 77.4  | 66.8  | 50.0 | - | 63.1  | 79.2  | 66.4  | - | 63.9  | 80.2  |
| 269.0                                                                   | 12.6  | 72.5  | 63.1  | 48.1 | 73.9  | 62.8  | 75.0  | 63.7  | 9.0   | 74.7  | 64.7  | 48.9 | - | 61.3  | 76.3  | 64.4  | - | 62.0  | 77.4  |
| 272.3                                                                   | 11.6  | 71.9  | 62.6  | 47.9 | 73.2  | 62.4  | 74.3  | 63.2  | 7.9   | 74.1  | 64.2  | 48.6 | - | 60.8  | 75.6  | 63.9  | - | 61.5  | 76.7  |
| 282.2                                                                   | 8.8   | 70.1  | 61.4  | 47.2 | 71.4  | 61.1  | 72.4  | 61.8  | -     | 72.2  | 62.8  | 47.8 | - | 59.5  | 73.6  | 62.6  | - | 60.3  | 74.7  |
| 285.4                                                                   | 7.9   | 69.6  | 61.0  | 47.0 | 70.8  | 60.6  | 71.8  | 61.4  | -     | 71.7  | 62.4  | 47.6 | - | 59.1  | 73.0  | 62.2  | - | 59.9  | 74.1  |
| 295.3                                                                   | -     | 67.9  | 59.7  | 46.5 | 69.1  | 59.7  | 70.2  | 60.3  | -     | 69.9  | 61.1  | 47.0 | - | 57.8  | 71.2  | 60.9  | - | 58.6  | 72.2  |
| 305.1                                                                   | -     | 66.4  | 58.6  | 45.9 | 67.5  | 58.6  | 68.6  | 59.2  | -     | 68.3  | 60.0  | 46.4 | - | 56.8  | 69.6  | 59.7  | - | 57.5  | 70.5  |
| 308.4                                                                   | -     | 65.8  | 58.3  | -    | 67.0  | 58.2  | 68.1  | 58.9  | -     | 67.8  | 59.6  | 46.2 | - | 56.4  | 69.0  | 59.3  | - | 57.2  | 69.9  |
| 321.5                                                                   | -     | 64.0  | 57.0  | -    | 65.3  | 57.0  | 66.2  | 57.5  | -     | 65.9  | 58.3  | 45.6 | - | 55.2  | 67.1  | 58.1  | - | 55.9  | 68.0  |
| 334.6                                                                   | -     | 62.4  | 56.0  | -    | 63.7  | 56.0  | 64.5  | 56.4  | -     | 64.2  | 57.1  | -    | - | 54.0  | 65.3  | 57.0  | - | 54.7  | 66.2  |
| 344.5                                                                   | -     | 61.5  | 55.3  | -    | 62.7  | 55.3  | 63.4  | 55.8  | -     | 63.1  | 56.3  | -    | - | 53.2  | 64.2  | 56.3  | - | 53.8  | 65.0  |
| 347.8                                                                   | -     | 61.2  | -     | -    | 62.4  | -     | 63.1  | 55.6  | -     | 62.7  | 56.1  | -    | - | 53.0  | 63.7  | 56.0  | - | 53.6  | 64.6  |
| 351.1                                                                   | -     | 60.9  | -     | -    | 62.1  | -     | 62.7  | 55.3  | -     | 62.3  | 55.8  | -    | - | 52.7  | 63.4  | 55.8  | - | 53.4  | 64.3  |
| 354.3                                                                   | -     | 60.6  | -     | -    | 61.7  | -     | 62.4  | -     | -     | 61.9  | 55.6  | -    | - | 52.5  | 63.1  | 55.6  | - | 53.1  | 63.9  |
| 360.9                                                                   | -     | -     | -     | -    | -     | -     | 61.8  | -     | -     | 61.4  | 55.1  | -    | - | 49.2  | 62.5  | 55.1  | - | 52.7  | 63.3  |
| 364.2                                                                   | -     | -     | -     | -    | -     | -     | 61.5  | -     | -     | 61.1  | -     | -    | - | -     | 62.2  | -     | - | 52.5  | 62.9  |
| 367.5                                                                   | -     | -     | -     | -    | -     | -     | -     | -     | -     | 60.7  | -     | -    | - | -     | 61.9  | -     | - | 52.2  | 62.6  |
| 370.7                                                                   | -     | -     | -     | -    | -     | -     | -     | -     | -     | 60.4  | -     | -    | - | -     | 61.5  | -     | - | -     | 62.3  |
| 374.0                                                                   | -     | -     | -     | -    | -     | -     | -     | -     | -     | -     | -     | -    | - | -     | -     | -     | - | -     | 62.1  |
| 380.6                                                                   | -     | -     | -     | -    | -     | -     | -     | -     | -     | -     | -     | -    | - | -     | -     | -     | - | -     | 61.5  |



|      |            |            |            |            |            |            |            |
|------|------------|------------|------------|------------|------------|------------|------------|
| 0 lb | 143,300 lb | 209,500 lb | 275,600 lb | 363,800 lb | 452,000 lb | 584,300 lb | 716,600 lb |
|------|------------|------------|------------|------------|------------|------------|------------|

LSL+LF\_2 – LSL+LF\_4:  36.1 ft – 62.3 ft

LSL+LF\_14:  42.7 ft – 68.9 ft

**LSL+LF\_14:**  496,100 lb +  110,200 lb

|  363,800 lb +  110,200 lb |       |  36.1-68.9 ft |           |  27.6 ft    |           |  32.2 ft/s |       | 360°     |           | ASME B30.5                                                                          |       |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------|-------|----------|-----------|-------------------------------------------------------------------------------------|-------|-------|
|  354.3 ft                                                                                                  |       |  364.2 ft     |           |  374.0 ft |           |                                                                                               |       |          |           |                                                                                     |       |       |
| LSL+LF_2                                                                                                                                                                                    |       | LSL+LF_4                                                                                       | LSL+LF_14 | LSL+LF_4                                                                                     | LSL+LF_14 | LSL+LF_2                                                                                      |       | LSL+LF_4 | LSL+LF_14 |                                                                                     |       |       |
|                                                                                                                                                                                             |       | 78.7 ft                                                                                        |           |                                                                                              |           |                                                                                               |       |          |           |                                                                                     |       |       |
|  0 lb                                                                                                      |       | 0-716.6 klb                                                                                    |           |  0 lb       |           | 0-716.6 klb                                                                                   |       |          |           |                                                                                     |       |       |
| 15°                                                                                                                                                                                         |       | 20°                                                                                            | 30°       | 15°                                                                                          | 20°       | 15°                                                                                           | 20°   | 15°      | 20°       |  |       |       |
| ft                                                                                                                                                                                          |       | 1,000 lb                                                                                       |           |                                                                                              |           |                                                                                               |       |          |           |                                                                                     |       | ft    |
| 62.3                                                                                                                                                                                        | 176.4 | 181.9                                                                                          | -         | -                                                                                            | -         | -                                                                                             | -     | -        | -         | -                                                                                   | -     | 62.3  |
| 65.6                                                                                                                                                                                        | 175.3 | 178.6                                                                                          | -         | -                                                                                            | -         | -                                                                                             | 192.9 | -        | -         | -                                                                                   | 194.0 | 65.6  |
| 68.9                                                                                                                                                                                        | 173.6 | 175.8                                                                                          | 136.7     | -                                                                                            | -         | 126.8                                                                                         | 188.5 | -        | -         | -                                                                                   | 189.6 | 68.9  |
| 72.2                                                                                                                                                                                        | 172.0 | 173.1                                                                                          | 134.5     | -                                                                                            | -         | 124.6                                                                                         | 184.1 | 134.5    | -         | 124.6                                                                               | 185.2 | 72.2  |
| 78.7                                                                                                                                                                                        | 163.1 | 167.6                                                                                          | 130.1     | -                                                                                            | -         | 120.2                                                                                         | 176.4 | 130.1    | -         | 121.3                                                                               | 177.5 | 78.7  |
| 82.0                                                                                                                                                                                        | 156.0 | 164.2                                                                                          | 128.4     | 81.4                                                                                         | -         | 118.5                                                                                         | 172.8 | 127.9    | -         | 119.0                                                                               | 173.9 | 82.0  |
| 85.3                                                                                                                                                                                        | 148.8 | 160.9                                                                                          | 126.8     | 80.5                                                                                         | -         | 116.8                                                                                         | 169.2 | 125.7    | -         | 116.8                                                                               | 170.3 | 85.3  |
| 91.9                                                                                                                                                                                        | 135.6 | 155.4                                                                                          | 122.4     | 78.7                                                                                         | -         | 112.4                                                                                         | 162.0 | 121.3    | -         | 113.5                                                                               | 163.1 | 91.9  |
| 98.4                                                                                                                                                                                        | 123.5 | 149.9                                                                                          | 119.0     | 76.9                                                                                         | -         | 110.0                                                                                         | 156.0 | 117.4    | -         | 110.2                                                                               | 157.6 | 98.4  |
| 111.5                                                                                                                                                                                       | 105.4 | 140.4                                                                                          | 112.0     | 73.7                                                                                         | -         | 104.0                                                                                         | 145.0 | 110.6    | -         | 104.6                                                                               | 146.6 | 111.5 |
| 124.7                                                                                                                                                                                       | 89.3  | 131.5                                                                                          | 105.6     | 70.7                                                                                         | -         | 98.5                                                                                          | 135.6 | 104.6    | -         | 99.3                                                                                | 136.7 | 124.7 |
| 137.8                                                                                                                                                                                       | 75.2  | 123.5                                                                                          | 99.9      | 67.9                                                                                         | -         | 93.5                                                                                          | 127.1 | 99.1     | -         | 94.1                                                                                | 128.2 | 137.8 |
| 150.9                                                                                                                                                                                       | 64.2  | 116.1                                                                                          | 95.0      | 65.3                                                                                         | -         | 89.2                                                                                          | 119.0 | 94.1     | -         | 90.0                                                                                | 120.2 | 150.9 |
| 164.0                                                                                                                                                                                       | 54.2  | 109.6                                                                                          | 90.5      | 62.8                                                                                         | -         | 85.2                                                                                          | 112.7 | 89.7     | -         | 86.1                                                                                | 113.5 | 164.0 |
| 177.2                                                                                                                                                                                       | 45.4  | 104.1                                                                                          | 86.2      | 60.6                                                                                         | -         | 81.4                                                                                          | 106.9 | 85.6     | -         | 82.5                                                                                | 107.7 | 177.2 |
| 190.3                                                                                                                                                                                       | 38.2  | 99.1                                                                                           | 82.5      | 58.6                                                                                         | -         | 78.0                                                                                          | 101.4 | 81.8     | -         | 79.1                                                                                | 102.7 | 190.3 |
| 203.4                                                                                                                                                                                       | 31.2  | 94.4                                                                                           | 79.1      | 56.7                                                                                         | -         | 74.8                                                                                          | 96.7  | 78.6     | -         | 75.8                                                                                | 98.0  | 203.4 |
| 216.5                                                                                                                                                                                       | 24.3  | 90.2                                                                                           | 76.1      | 54.9                                                                                         | -         | 71.9                                                                                          | 92.3  | 75.5     | -         | 72.8                                                                                | 93.6  | 216.5 |
| 229.7                                                                                                                                                                                       | 18.7  | 86.5                                                                                           | 73.3      | 53.4                                                                                         | -         | 69.2                                                                                          | 88.2  | 72.8     | -         | 70.1                                                                                | 89.5  | 229.7 |
| 242.8                                                                                                                                                                                       | 13.5  | 83.0                                                                                           | 70.7      | 52.0                                                                                         | -         | 66.8                                                                                          | 84.8  | 70.3     | -         | 67.7                                                                                | 86.0  | 242.8 |
| 246.1                                                                                                                                                                                       | 12.3  | 82.2                                                                                           | 70.1      | 51.7                                                                                         | -         | 66.2                                                                                          | 84.0  | 69.6     | -         | 67.1                                                                                | 85.1  | 246.1 |
| 255.9                                                                                                                                                                                       | 8.8   | 79.8                                                                                           | 68.3      | 50.7                                                                                         | -         | 64.6                                                                                          | 81.5  | 67.9     | -         | 65.5                                                                                | 82.6  | 255.9 |
| 269.0                                                                                                                                                                                       | -     | 76.9                                                                                           | 66.3      | 49.5                                                                                         | -         | 62.8                                                                                          | 78.5  | 65.9     | -         | 63.6                                                                                | 79.6  | 269.0 |
| 282.2                                                                                                                                                                                       | -     | 74.2                                                                                           | 64.3      | 48.5                                                                                         | -         | 61.1                                                                                          | 75.8  | 64.0     | -         | 61.7                                                                                | 76.8  | 282.2 |
| 295.3                                                                                                                                                                                       | -     | 71.9                                                                                           | 62.4      | 47.6                                                                                         | -         | 59.3                                                                                          | 73.3  | 62.2     | -         | 60.0                                                                                | 74.2  | 295.3 |
| 308.4                                                                                                                                                                                       | -     | 69.7                                                                                           | 60.9      | 46.7                                                                                         | -         | 57.8                                                                                          | 71.0  | 60.6     | -         | 58.5                                                                                | 71.9  | 308.4 |
| 321.5                                                                                                                                                                                       | -     | 67.6                                                                                           | 59.5      | 46.0                                                                                         | -         | 56.5                                                                                          | 68.9  | 59.3     | -         | 57.1                                                                                | 69.9  | 321.5 |
| 334.6                                                                                                                                                                                       | -     | 65.7                                                                                           | 58.0      | 45.4                                                                                         | -         | 55.1                                                                                          | 67.0  | 58.1     | -         | 55.8                                                                                | 67.9  | 334.6 |
| 347.8                                                                                                                                                                                       | -     | 64.2                                                                                           | 57.0      | -                                                                                            | -         | 54.1                                                                                          | 65.3  | 56.9     | -         | 54.7                                                                                | 66.1  | 347.8 |
| 351.1                                                                                                                                                                                       | -     | 63.9                                                                                           | 56.7      | -                                                                                            | -         | 53.8                                                                                          | 65.0  | 56.7     | -         | 54.3                                                                                | 65.8  | 351.1 |
| 360.9                                                                                                                                                                                       | -     | 62.8                                                                                           | 56.0      | -                                                                                            | -         | 53.1                                                                                          | 63.9  | 56.0     | -         | 53.6                                                                                | 64.7  | 360.9 |
| 374.0                                                                                                                                                                                       | -     | 61.5                                                                                           | 55.1      | -                                                                                            | -         | 52.2                                                                                          | 62.7  | 55.3     | -         | 52.7                                                                                | 63.3  | 374.0 |
| 377.3                                                                                                                                                                                       | -     | 61.2                                                                                           | 55.1      | -                                                                                            | -         | 49.8                                                                                          | 62.4  | 55.1     | -         | 52.5                                                                                | 63.1  | 377.3 |
| 383.9                                                                                                                                                                                       | -     | 60.7                                                                                           | -         | -                                                                                            | -         | -                                                                                             | 61.8  | -        | -         | 52.0                                                                                | 62.5  | 383.9 |
| 387.1                                                                                                                                                                                       | -     | 60.4                                                                                           | -         | -                                                                                            | -         | -                                                                                             | 61.5  | -        | -         | -                                                                                   | 62.2  | 387.1 |
| 393.7                                                                                                                                                                                       | -     | -                                                                                              | -         | -                                                                                            | -         | -                                                                                             | -     | -        | -         | -                                                                                   | 61.6  | 393.7 |
| 397.0                                                                                                                                                                                       | -     | -                                                                                              | -         | -                                                                                            | -         | -                                                                                             | -     | -        | -         | -                                                                                   | 61.3  | 397.0 |
| 400.3                                                                                                                                                                                       | -     | -                                                                                              | -         | -                                                                                            | -         | -                                                                                             | -     | -        | -         | -                                                                                   | -     | 400.3 |
| 406.8                                                                                                                                                                                       | -     | -                                                                                              | -         | -                                                                                            | -         | -                                                                                             | -     | -        | -         | -                                                                                   | -     | 406.8 |

 0 lb    143,300 lb    209,500 lb    275,600 lb    363,800 lb    452,000 lb    584,300 lb    716,600 lb

LSL+LF\_2 – LSL+LF\_4:  36.1 ft – 62.3 ft

LSL+LF\_14:  42.7 ft – 68.9 ft

LSL+LF\_14:  496,100 lb +  110,200 lb



| 363,800 lb + 110,200 lb 36.1-68.9 ft 27.6 ft 32.2 ft/s 360° ASME B30.5 |          |           |       |          |       |             |       |          |     |           |       |          |       |           |       |       |       |
|------------------------------------------------------------------------|----------|-----------|-------|----------|-------|-------------|-------|----------|-----|-----------|-------|----------|-------|-----------|-------|-------|-------|
| 383.9 ft                                                               |          |           |       | 393.7 ft |       |             |       |          |     |           |       | 403.5 ft |       |           |       |       |       |
| LSL+LF_4                                                               |          | LSL+LF_14 |       | LSL+LF_2 |       |             |       | LSL+LF_4 |     | LSL+LF_14 |       | LSL+LF_4 |       | LSL+LF_14 |       |       |       |
| 78.7 ft                                                                |          |           |       |          |       |             |       |          |     |           |       |          |       |           |       |       |       |
| 0-716.6 klb                                                            |          |           |       | 0 lb     |       | 0-716.6 klb |       |          |     |           |       |          |       |           |       |       |       |
| 15°                                                                    | 20°      | 15°       | 20°   | 15°      | 20°   | 30°         | 15°   | 20°      | 15° | 20°       | 15°   | 20°      | 15°   | 20°       | 15°   | 20°   |       |
| ft                                                                     | 1,000 lb |           |       |          |       |             |       |          |     |           |       |          |       |           | ft    |       |       |
| 65.6                                                                   | -        | -         | 196.2 | -        | -     | -           | -     | -        | -   | -         | -     | -        | -     | -         | -     | 65.6  |       |
| 68.9                                                                   | -        | -         | 192.4 | -        | 158.7 | 165.3       | -     | -        | -   | 192.9     | -     | -        | -     | 194.0     | -     | 68.9  |       |
| 72.2                                                                   | -        | 125.7     | 188.5 | -        | 158.7 | 164.2       | 134.5 | -        | -   | 189.6     | -     | -        | -     | 190.7     | -     | 72.2  |       |
| 75.5                                                                   | -        | 123.5     | 184.1 | 133.4    | 153.2 | 163.1       | 132.3 | -        | -   | 185.7     | 134.5 | -        | 123.5 | 186.8     | 134.5 | 75.5  |       |
| 78.7                                                                   | -        | 121.3     | 179.7 | 131.2    | 151.0 | 162.0       | 130.1 | -        | -   | 181.9     | 132.3 | -        | 122.4 | 183.0     | 132.3 | 78.7  |       |
| 85.3                                                                   | -        | 117.9     | 173.1 | 127.3    | 136.7 | 158.7       | 126.8 | 80.5     | -   | 117.9     | 174.7 | 127.9    | -     | 119.0     | 175.8 | 128.4 | 85.3  |
| 91.9                                                                   | -        | 114.6     | 166.4 | 123.5    | 124.6 | 156.5       | 123.5 | 78.7     | -   | 114.6     | 167.6 | 123.5    | -     | 115.7     | 168.7 | 124.6 | 91.9  |
| 98.4                                                                   | -        | 111.3     | 160.4 | 119.6    | 113.5 | 152.1       | 121.3 | 77.2     | -   | 112.4     | 161.5 | 120.2    | -     | 112.4     | 162.6 | 120.7 | 98.4  |
| 111.5                                                                  | -        | 106.0     | 149.4 | 112.8    | 95.8  | 144.0       | 114.6 | 74.4     | -   | 106.9     | 150.5 | 113.5    | -     | 107.4     | 151.6 | 114.1 | 111.5 |
| 124.7                                                                  | -        | 100.9     | 139.4 | 106.9    | 80.0  | 136.0       | 108.6 | 71.7     | -   | 101.6     | 140.5 | 107.5    | -     | 102.5     | 142.2 | 108.5 | 124.7 |
| 137.8                                                                  | -        | 95.9      | 130.8 | 101.6    | 66.4  | 127.9       | 103.2 | 69.2     | -   | 96.8      | 131.9 | 102.2    | -     | 97.7      | 133.7 | 103.0 | 137.8 |
| 150.9                                                                  | -        | 91.8      | 123.5 | 96.6     | 55.8  | 121.3       | 98.2  | 66.6     | -   | 92.5      | 124.6 | 97.2     | -     | 93.5      | 125.7 | 97.9  | 150.9 |
| 164.0                                                                  | -        | 87.9      | 116.8 | 92.2     | 46.2  | 115.0       | 93.6  | 64.2     | -   | 88.6      | 117.9 | 93.0     | -     | 89.7      | 119.0 | 93.6  | 164.0 |
| 177.2                                                                  | -        | 84.2      | 110.8 | 88.0     | 37.5  | 109.1       | 89.5  | 61.9     | -   | 84.9      | 111.9 | 88.9     | -     | 86.0      | 113.1 | 89.6  | 177.2 |
| 190.3                                                                  | -        | 80.8      | 105.4 | 84.2     | 30.4  | 104.0       | 85.8  | 59.9     | -   | 81.6      | 106.5 | 85.1     | -     | 82.6      | 107.8 | 85.8  | 190.3 |
| 203.4                                                                  | -        | 77.7      | 100.5 | 81.0     | 24.0  | 99.2        | 82.4  | 58.1     | -   | 78.5      | 101.8 | 81.9     | -     | 79.4      | 103.0 | 82.5  | 203.4 |
| 216.5                                                                  | -        | 74.7      | 96.0  | 78.0     | 18.1  | 94.8        | 79.1  | 56.4     | -   | 75.4      | 97.3  | 78.8     | -     | 76.5      | 98.4  | 79.4  | 216.5 |
| 229.7                                                                  | -        | 71.9      | 91.9  | 75.2     | 12.6  | 91.0        | 76.4  | 54.8     | -   | 72.8      | 93.0  | 75.8     | -     | 73.9      | 94.1  | 76.5  | 229.7 |
| 239.5                                                                  | -        | 70.0      | 89.1  | 73.2     | 8.8   | 88.2        | 74.3  | 53.7     | -   | 70.8      | 90.2  | 73.9     | -     | 71.9      | 91.4  | 74.6  | 239.5 |
| 242.8                                                                  | -        | 69.4      | 88.2  | 72.5     | -     | 87.4        | 73.7  | 53.4     | -   | 70.3      | 89.3  | 73.2     | -     | 71.3      | 90.5  | 74.0  | 242.8 |
| 255.9                                                                  | -        | 67.0      | 84.9  | 70.1     | -     | 84.0        | 71.2  | 52.0     | -   | 67.9      | 85.9  | 70.9     | -     | 68.8      | 87.0  | 71.6  | 255.9 |
| 269.0                                                                  | -        | 65.1      | 81.8  | 67.9     | -     | 81.1        | 69.0  | 50.9     | -   | 65.8      | 82.7  | 68.6     | -     | 66.7      | 83.8  | 69.2  | 269.0 |
| 282.2                                                                  | -        | 63.3      | 79.0  | 66.0     | -     | 78.3        | 66.9  | 49.8     | -   | 63.9      | 79.9  | 66.7     | -     | 64.8      | 81.0  | 67.3  | 282.2 |
| 295.3                                                                  | -        | 61.7      | 76.4  | 64.2     | -     | 75.6        | 65.0  | 48.7     | -   | 62.4      | 77.3  | 64.8     | -     | 63.1      | 78.3  | 65.5  | 295.3 |
| 308.4                                                                  | -        | 60.0      | 73.9  | 62.4     | -     | 73.3        | 63.4  | 47.8     | -   | 60.8      | 74.7  | 63.1     | -     | 61.6      | 75.8  | 63.7  | 308.4 |
| 321.5                                                                  | -        | 58.5      | 71.7  | 61.1     | -     | 71.2        | 61.9  | 47.0     | -   | 59.3      | 72.6  | 61.6     | -     | 59.9      | 73.5  | 62.2  | 321.5 |
| 334.6                                                                  | -        | 57.1      | 69.7  | 59.6     | -     | 69.2        | 60.4  | 46.3     | -   | 57.8      | 70.5  | 60.2     | -     | 58.4      | 71.4  | 60.8  | 334.6 |
| 347.8                                                                  | -        | 55.9      | 67.9  | 58.4     | -     | 67.5        | 59.1  | 45.7     | -   | 56.6      | 68.6  | 58.9     | -     | 57.2      | 69.4  | 59.3  | 347.8 |
| 360.9                                                                  | -        | 54.7      | 66.3  | 57.4     | -     | 65.8        | 57.9  | 45.2     | -   | 55.3      | 67.0  | 57.8     | -     | 55.9      | 67.7  | 58.3  | 360.9 |
| 364.2                                                                  | -        | 54.5      | 65.9  | 57.1     | -     | 65.4        | 57.7  | 45.0     | -   | 55.1      | 66.6  | 57.6     | -     | 55.7      | 67.2  | 58.0  | 364.2 |
| 374.0                                                                  | -        | 53.8      | 64.7  | 56.4     | -     | 64.2        | 56.9  | -        | -   | 54.2      | 65.5  | 56.8     | -     | 54.9      | 66.1  | 57.2  | 374.0 |
| 387.1                                                                  | -        | 52.9      | 63.3  | 55.6     | -     | 62.9        | 56.0  | -        | -   | 53.4      | 63.9  | 55.8     | -     | 53.9      | 64.6  | 56.2  | 387.1 |
| 400.3                                                                  | -        | 52.0      | 62.3  | 54.9     | -     | 61.7        | 55.2  | -        | -   | 52.6      | 62.8  | 55.2     | -     | 53.0      | 63.4  | 55.5  | 400.3 |
| 403.5                                                                  | -        | 13.9      | 62.0  | 48.3     | -     | 61.4        | 55.1  | -        | -   | 52.4      | 62.5  | 55.1     | -     | 52.8      | 63.1  | 55.3  | 403.5 |
| 410.1                                                                  | -        | -         | 61.5  | -        | -     | 60.9        | 54.7  | -        | -   | 52.0      | 61.9  | 54.7     | -     | 52.5      | 62.6  | 55.0  | 410.1 |
| 413.4                                                                  | -        | -         | 61.3  | -        | -     | 60.6        | -     | -        | -   | -         | 61.7  | -        | -     | 52.2      | 62.3  | 54.9  | 413.4 |
| 419.9                                                                  | -        | -         | -     | -        | -     | 60.2        | -     | -        | -   | -         | 61.3  | -        | -     | 18.5      | 61.8  | 54.7  | 419.9 |
| 423.2                                                                  | -        | -         | -     | -        | -     | 60.0        | -     | -        | -   | -         | 61.1  | -        | -     | -         | 61.5  | -     | 423.2 |
| 426.5                                                                  | -        | -         | -     | -        | -     | -           | -     | -        | -   | -         | -     | -        | -     | -         | 61.3  | -     | 426.5 |
| 429.8                                                                  | -        | -         | -     | -        | -     | -           | -     | -        | -   | -         | -     | -        | -     | -         | 61.1  | -     | 429.8 |

| <div><div><div><div></div></div></div><div>363,800 lb + <div><div></div></div>110,200 lb</div><div><div><div></div></div>36.1-68.9 ft</div><div><div><div></div></div>27.6 ft</div><div><div><div></div></div>32.2 ft/s</div><div>360°</div><div>ASME B30.5</div></div>                                                                   |       |          |       |      |   |       |       |       |   |       |       |       |       |       |       |      |   |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|-------|------|---|-------|-------|-------|---|-------|-------|-------|-------|-------|-------|------|---|-------|
| <div><div><div><div></div></div></div><div>413.4 ft</div><div>423.2 ft</div><div>433.1 ft</div></div>                                                                                                                                                                                                                                     |       |          |       |      |   |       |       |       |   |       |       |       |       |       |       |      |   |       |
| <div><div><div><div></div></div></div><div>LSL+LF_2</div><div>LSL+LF_4</div><div>LSL+LF_14</div><div>LSL+LF_4</div><div>LSL+LF_14</div><div>LSL+LF_2</div><div>LSL+LF_4</div><div>LSL+LF_14</div></div>                                                                                                                                   |       |          |       |      |   |       |       |       |   |       |       |       |       |       |       |      |   |       |
| <div><div><div><div></div></div></div><div>78.7 ft</div></div>                                                                                                                                                                                                                                                                            |       |          |       |      |   |       |       |       |   |       |       |       |       |       |       |      |   |       |
| <div><div><div><div></div></div></div><div>0 lb</div><div>0-716.6 klb</div><div>0 lb</div><div>0-716.6 klb</div></div>                                                                                                                                                                                                                    |       |          |       |      |   |       |       |       |   |       |       |       |       |       |       |      |   |       |
| <div><div><div><div></div></div></div><div>15°</div><div>20°</div><div>30°</div><div>15°</div><div>20°</div><div>15°</div><div>20°</div><div>15°</div><div>20°</div><div>15°</div><div>20°</div><div>15°</div><div>20°</div><div>30°</div><div>15°</div><div>20°</div><div>15°</div><div>20°</div><div><div><div></div></div></div></div> |       |          |       |      |   |       |       |       |   |       |       |       |       |       |       |      |   |       |
| ft                                                                                                                                                                                                                                                                                                                                        |       | 1,000 lb |       |      |   |       |       |       |   |       |       |       |       |       |       | ft   |   |       |
| 68.9                                                                                                                                                                                                                                                                                                                                      | 144.4 | 151.0    | -     | -    | - | -     | 194.0 | -     | - | -     | 196.2 | -     | -     | -     | -     | -    | - | 68.9  |
| 72.2                                                                                                                                                                                                                                                                                                                                      | 144.4 | 149.9    | -     | -    | - | -     | 189.6 | -     | - | -     | 191.8 | -     | 131.2 | 135.6 | -     | -    | - | 72.2  |
| 75.5                                                                                                                                                                                                                                                                                                                                      | 142.2 | 149.9    | 129.0 | -    | - | 137.8 | 186.3 | 135.6 | - | 137.8 | 187.9 | -     | 131.2 | 135.0 | -     | -    | - | 75.5  |
| 78.7                                                                                                                                                                                                                                                                                                                                      | 141.1 | 149.9    | 127.9 | -    | - | 135.6 | 183.0 | 133.4 | - | 135.6 | 184.1 | 133.4 | 131.2 | 134.5 | 120.2 | -    | - | 78.7  |
| 85.3                                                                                                                                                                                                                                                                                                                                      | 132.3 | 148.8    | 125.7 | -    | - | 132.3 | 176.4 | 129.0 | - | 132.3 | 177.5 | 129.5 | 125.7 | 133.4 | 120.2 | -    | - | 85.3  |
| 88.6                                                                                                                                                                                                                                                                                                                                      | 126.2 | 148.8    | 124.6 | 79.4 | - | 130.6 | 173.1 | 126.8 | - | 130.6 | 174.2 | 127.6 | 120.2 | 133.4 | 119.6 | 79.1 | - | 88.6  |
| 91.9                                                                                                                                                                                                                                                                                                                                      | 120.2 | 148.8    | 123.5 | 78.7 | - | 129.0 | 169.8 | 124.6 | - | 129.0 | 170.9 | 125.7 | 115.7 | 133.4 | 119.0 | 78.5 | - | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                                      | 110.2 | 147.7    | 120.2 | 77.2 | - | 125.7 | 163.7 | 121.3 | - | 125.7 | 164.8 | 121.8 | 105.8 | 132.3 | 117.9 | 77.2 | - | 98.4  |
| 111.5                                                                                                                                                                                                                                                                                                                                     | 92.6  | 141.1    | 115.0 | 74.4 | - | 119.0 | 152.7 | 114.6 | - | 119.8 | 153.8 | 115.2 | 88.5  | 130.1 | 114.3 | 74.7 | - | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                                     | 77.1  | 134.5    | 109.8 | 71.7 | - | 113.4 | 143.3 | 108.8 | - | 114.4 | 144.4 | 109.7 | 73.2  | 127.5 | 110.0 | 72.1 | - | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                                     | 63.7  | 127.9    | 104.5 | 69.2 | - | 108.7 | 134.8 | 103.8 | - | 109.6 | 136.0 | 104.4 | 60.0  | 124.6 | 105.2 | 69.4 | - | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                                     | 53.1  | 122.0    | 99.6  | 66.9 | - | 104.3 | 126.8 | 98.8  | - | 105.0 | 127.9 | 99.4  | 49.7  | 120.9 | 100.6 | 67.1 | - | 150.9 |
| 164.0                                                                                                                                                                                                                                                                                                                                     | 43.6  | 116.1    | 95.2  | 64.6 | - | 100.1 | 120.2 | 94.4  | - | 100.8 | 121.3 | 95.0  | 40.3  | 116.8 | 96.3  | 64.9 | - | 164.0 |
| 177.2                                                                                                                                                                                                                                                                                                                                     | 35.1  | 110.2    | 91.1  | 62.4 | - | 96.1  | 114.2 | 90.3  | - | 96.8  | 115.4 | 91.0  | 32.0  | 112.4 | 92.2  | 62.8 | - | 177.2 |
| 190.3                                                                                                                                                                                                                                                                                                                                     | 28.1  | 105.7    | 87.4  | 60.5 | - | 92.4  | 108.9 | 86.6  | - | 93.1  | 110.2 | 87.3  | 25.1  | 108.2 | 88.6  | 60.9 | - | 190.3 |
| 203.4                                                                                                                                                                                                                                                                                                                                     | 21.8  | 101.2    | 83.9  | 58.6 | - | 88.9  | 104.1 | 83.3  | - | 89.7  | 105.2 | 83.9  | 18.7  | 103.8 | 85.2  | 59.2 | - | 203.4 |
| 216.5                                                                                                                                                                                                                                                                                                                                     | 15.9  | 96.8     | 80.7  | 56.9 | - | 85.5  | 99.5  | 80.1  | - | 86.4  | 100.5 | 80.8  | 12.8  | 99.2  | 82.0  | 57.5 | - | 216.5 |
| 229.7                                                                                                                                                                                                                                                                                                                                     | 10.9  | 92.7     | 77.9  | 55.4 | - | 82.7  | 95.2  | 77.2  | - | 83.6  | 96.3  | 78.0  | 7.7   | 94.5  | 79.2  | 56.0 | - | 229.7 |
| 236.2                                                                                                                                                                                                                                                                                                                                     | 8.4   | 90.8     | 76.5  | 54.7 | - | 81.4  | 93.4  | 75.9  | - | 82.2  | 94.5  | 76.7  | -     | 92.2  | 77.8  | 55.3 | - | 236.2 |
| 242.8                                                                                                                                                                                                                                                                                                                                     | -     | 89.2     | 75.3  | 54.0 | - | 80.1  | 91.6  | 74.6  | - | 81.0  | 92.7  | 75.4  | -     | 90.5  | 76.6  | 54.6 | - | 242.8 |
| 255.9                                                                                                                                                                                                                                                                                                                                     | -     | 86.0     | 72.8  | 52.7 | - | 77.6  | 88.1  | 72.2  | - | 78.5  | 89.1  | 72.9  | -     | 87.1  | 74.1  | 53.1 | - | 255.9 |
| 269.0                                                                                                                                                                                                                                                                                                                                     | -     | 83.0     | 70.5  | 51.4 | - | 75.4  | 84.9  | 69.9  | - | 76.1  | 85.8  | 70.5  | -     | 84.3  | 71.9  | 52.0 | - | 269.0 |
| 282.2                                                                                                                                                                                                                                                                                                                                     | -     | 80.2     | 68.4  | 50.2 | - | 73.3  | 81.9  | 68.0  | - | 73.9  | 83.0  | 68.7  | -     | 81.7  | 69.7  | 50.9 | - | 282.2 |
| 295.3                                                                                                                                                                                                                                                                                                                                     | -     | 77.6     | 66.4  | 49.2 | - | 71.2  | 79.2  | 66.1  | - | 71.9  | 80.2  | 66.7  | -     | 79.1  | 67.7  | 49.8 | - | 295.3 |
| 308.4                                                                                                                                                                                                                                                                                                                                     | -     | 75.3     | 64.6  | 48.3 | - | 69.3  | 76.7  | 64.4  | - | 70.0  | 77.6  | 64.8  | -     | 76.7  | 65.9  | 48.8 | - | 308.4 |
| 321.5                                                                                                                                                                                                                                                                                                                                     | -     | 73.0     | 63.0  | 47.5 | - | 67.6  | 74.4  | 62.8  | - | 68.2  | 75.3  | 63.4  | -     | 74.6  | 64.2  | 47.9 | - | 321.5 |
| 334.6                                                                                                                                                                                                                                                                                                                                     | -     | 70.8     | 61.5  | 46.7 | - | 65.9  | 72.3  | 61.3  | - | 66.6  | 73.1  | 61.9  | -     | 72.5  | 62.6  | 47.2 | - | 334.6 |
| 347.8                                                                                                                                                                                                                                                                                                                                     | -     | 69.0     | 60.2  | 46.0 | - | 64.6  | 70.3  | 60.0  | - | 65.1  | 71.2  | 60.4  | -     | 70.6  | 61.3  | 46.5 | - | 347.8 |
| 360.9                                                                                                                                                                                                                                                                                                                                     | -     | 67.3     | 58.9  | 45.5 | - | 63.3  | 68.6  | 58.8  | - | 63.8  | 69.3  | 59.2  | -     | 68.8  | 60.0  | 45.8 | - | 360.9 |
| 374.0                                                                                                                                                                                                                                                                                                                                     | -     | 65.7     | 57.8  | 45.0 | - | 61.9  | 66.9  | 57.7  | - | 62.4  | 67.6  | 58.1  | -     | 67.0  | 58.6  | 45.2 | - | 374.0 |
| 380.6                                                                                                                                                                                                                                                                                                                                     | -     | 65.0     | 57.2  | 44.8 | - | 61.5  | 66.1  | 57.2  | - | 61.9  | 66.9  | 57.6  | -     | 66.4  | 58.2  | 45.1 | - | 380.6 |
| 387.1                                                                                                                                                                                                                                                                                                                                     | -     | 64.2     | 56.7  | -    | - | 61.0  | 65.3  | 56.7  | - | 61.4  | 66.1  | 57.1  | -     | 65.6  | 57.7  | 44.9 | - | 387.1 |
| 393.7                                                                                                                                                                                                                                                                                                                                     | -     | 63.5     | 56.2  | -    | - | 60.4  | 64.7  | 56.2  | - | 60.8  | 65.4  | 56.7  | -     | 64.8  | 57.1  | 44.5 | - | 393.7 |
| 400.3                                                                                                                                                                                                                                                                                                                                     | -     | 62.9     | 55.9  | -    | - | 60.0  | 64.1  | 55.8  | - | 60.4  | 64.7  | 56.2  | -     | 64.2  | 56.7  | -    | - | 400.3 |
| 413.4                                                                                                                                                                                                                                                                                                                                     | -     | 61.7     | 55.1  | -    | - | 59.1  | 62.9  | 55.0  | - | 59.5  | 63.3  | 55.4  | -     | 62.8  | 55.8  | -    | - | 413.4 |
| 426.5                                                                                                                                                                                                                                                                                                                                     | -     | 60.7     | 54.5  | -    | - | 58.4  | 61.7  | 54.5  | - | 58.8  | 59.1  | 54.7  | -     | 61.8  | 55.0  | -    | - | 426.5 |
| 436.4                                                                                                                                                                                                                                                                                                                                     | -     | 60.0     | -     | -    | - | 59.3  | -     | -     | - | 52.9  | 55.2  | 45.6  | -     | 61.1  | 54.5  | -    | - | 436.4 |
| 439.6                                                                                                                                                                                                                                                                                                                                     | -     | 59.7     | -     | -    | - | 58.0  | -     | -     | - | -     | 53.9  | -     | -     | 60.8  | 54.4  | -    | - | 439.6 |
| 442.9                                                                                                                                                                                                                                                                                                                                     | -     | -        | -     | -    | - | -     | -     | -     | - | -     | 52.7  | -     | -     | 60.6  | 54.2  | -    | - | 442.9 |
| 446.2                                                                                                                                                                                                                                                                                                                                     | -     | -        | -     | -    | - | -     | -     | -     | - | -     | 51.4  | -     | -     | 60.4  | 27.8  | -    | - | 446.2 |
| 449.5                                                                                                                                                                                                                                                                                                                                     | -     | -        | -     | -    | - | -     | -     | -     | - | -     | 50.0  | -     | -     | 60.2  | -     | -    | - | 449.5 |
| 452.8                                                                                                                                                                                                                                                                                                                                     | -     | -        | -     | -    | - | -     | -     | -     | - | -     | -     | -     | -     | 60.0  | -     | -    | - | 452.8 |
| 456.0                                                                                                                                                                                                                                                                                                                                     | -     | -        | -     | -    | - | -     | -     | -     | - | -     | -     | -     | -     | 59.7  | -     | -    | - | 456.0 |

 0 lb    143,300 lb    209,500 lb    275,600 lb    363,800 lb    452,000 lb    584,300 lb    716,600 lb

LSL+LF\_2 – LSL+LF\_4:  36.1 ft – 62.3 ft

LSL+LF\_14:  42.7 ft – 68.9 ft

LSL+LF\_14:  496,100 lb +  110,200 lb

| 363,800 lb +  110,200 lb |   | 36.1-68.9 ft |       | 27.6 ft  |       | 32.2 ft/s |       | 360°      |   | ASME B30.5 |       |       |   |       |       |       |       |
|--------------------------|---|--------------|-------|----------|-------|-----------|-------|-----------|---|------------|-------|-------|---|-------|-------|-------|-------|
| 442.9 ft                 |   |              |       | 452.8 ft |       |           |       | 462.6 ft  |   |            |       |       |   |       |       |       |       |
| LSL+LF_4                 |   | LSL+LF_14    |       | LSL+LF_2 |       | LSL+LF_4  |       | LSL+LF_14 |   | LSL+LF_4   |       |       |   |       |       |       |       |
|                          |   |              |       |          |       |           |       |           |   |            |       |       |   |       |       |       |       |
| 78.7 ft                  |   |              |       |          |       |           |       |           |   |            |       |       |   |       |       |       |       |
| 0-716.6 klb              |   | 0 lb         |       |          |       |           |       |           |   |            |       |       |   |       |       |       |       |
| 15°                      |   | 20°          |       | 15°      |       | 20°       |       | 15°       |   | 20°        |       |       |   |       |       |       |       |
|                          |   |              |       |          |       |           |       |           |   |            |       |       |   |       |       |       |       |
| ft                       |   | 1,000 lb     |       |          |       |           |       |           |   | ft         |       |       |   |       |       |       |       |
| 72.2                     | - | -            | 194.0 | -        | 114.6 | 119.0     | -     | -         | - | 192.9      | -     | -     | - | 196.2 | -     | 72.2  |       |
| 78.7                     | - | 135.6        | 186.3 | 134.5    | 114.6 | 117.9     | 107.8 | -         | - | 131.2      | 186.3 | 134.5 | - | 127.9 | 188.5 | -     | 78.7  |
| 82.0                     | - | 133.9        | 183.0 | 132.3    | 114.6 | 117.4     | 107.7 | -         | - | 130.1      | 183.3 | 132.3 | - | 127.3 | 185.2 | 133.4 | 82.0  |
| 85.3                     | - | 132.3        | 179.7 | 130.4    | 114.6 | 116.8     | 107.6 | -         | - | 130.1      | 180.2 | 130.4 | - | 126.8 | 181.9 | 131.2 | 85.3  |
| 91.9                     | - | 129.0        | 173.1 | 126.8    | 110.2 | 115.7     | 107.1 | 78.0      | - | 127.9      | 174.2 | 126.8 | - | 126.8 | 175.3 | 127.9 | 91.9  |
| 98.4                     | - | 126.8        | 167.6 | 122.9    | 102.3 | 115.7     | 106.5 | 76.7      | - | 125.7      | 168.7 | 123.5 | - | 125.7 | 169.8 | 124.0 | 98.4  |
| 111.5                    | - | 120.9        | 156.5 | 116.3    | 85.4  | 113.5     | 104.9 | 74.1      | - | 120.5      | 157.6 | 116.8 | - | 120.5 | 158.7 | 117.4 | 111.5 |
| 124.7                    | - | 115.4        | 146.6 | 110.9    | 70.4  | 111.7     | 102.9 | 71.5      | - | 115.4      | 147.7 | 111.1 | - | 115.7 | 148.8 | 112.0 | 124.7 |
| 137.8                    | - | 110.2        | 138.2 | 105.7    | 57.3  | 110.2     | 100.5 | 69.0      | - | 110.2      | 139.3 | 106.3 | - | 111.3 | 140.7 | 106.9 | 137.8 |
| 150.9                    | - | 106.1        | 130.1 | 100.8    | 47.2  | 108.2     | 98.2  | 66.8      | - | 106.1      | 131.2 | 101.4 | - | 107.2 | 133.4 | 102.1 | 150.9 |
| 164.0                    | - | 102.1        | 123.5 | 96.5     | 38.0  | 105.6     | 95.5  | 64.7      | - | 102.1      | 124.6 | 97.2  | - | 103.2 | 126.0 | 97.7  | 164.0 |
| 177.2                    | - | 98.1         | 117.6 | 92.4     | 29.8  | 102.5     | 92.4  | 62.6      | - | 98.3       | 118.7 | 93.1  | - | 99.2  | 119.8 | 93.6  | 177.2 |
| 190.3                    | - | 94.6         | 112.4 | 88.6     | 23.0  | 99.4      | 89.3  | 60.7      | - | 94.8       | 113.5 | 89.3  | - | 95.8  | 114.6 | 89.9  | 190.3 |
| 203.4                    | - | 91.2         | 107.6 | 85.4     | 16.8  | 96.4      | 86.1  | 59.0      | - | 91.5       | 108.6 | 86.1  | - | 92.4  | 109.2 | 86.6  | 203.4 |
| 216.5                    | - | 88.2         | 103.0 | 82.2     | 11.0  | 93.3      | 82.9  | 57.5      | - | 88.4       | 103.9 | 82.8  | - | 89.3  | 105.0 | 83.4  | 216.5 |
| 223.1                    | - | 86.5         | 100.8 | 80.8     | 8.4   | 91.8      | 81.4  | 56.7      | - | 86.8       | 101.8 | 81.4  | - | 87.8  | 102.9 | 81.9  | 223.1 |
| 229.7                    | - | 85.0         | 98.5  | 79.4     | -     | 90.3      | 79.8  | 56.0      | - | 85.4       | 99.6  | 80.0  | - | 86.3  | 100.8 | 80.5  | 229.7 |
| 242.8                    | - | 82.3         | 94.7  | 76.7     | -     | 87.3      | 77.0  | 54.7      | - | 82.7       | 95.8  | 77.4  | - | 83.6  | 96.9  | 78.0  | 242.8 |
| 255.9                    | - | 79.8         | 91.2  | 74.3     | -     | 84.2      | 74.5  | 53.6      | - | 80.0       | 92.2  | 74.9  | - | 80.9  | 93.3  | 75.5  | 255.9 |
| 269.0                    | - | 77.4         | 87.7  | 71.9     | -     | 81.3      | 72.5  | 52.4      | - | 77.8       | 88.8  | 72.5  | - | 78.6  | 89.7  | 73.2  | 269.0 |
| 282.2                    | - | 75.3         | 84.9  | 69.9     | -     | 78.5      | 70.5  | 51.3      | - | 75.6       | 85.9  | 70.5  | - | 76.4  | 86.8  | 71.1  | 282.2 |
| 295.3                    | - | 73.2         | 82.0  | 67.9     | -     | 75.8      | 68.8  | 50.3      | - | 73.6       | 83.0  | 68.5  | - | 74.5  | 84.0  | 69.2  | 295.3 |
| 308.4                    | - | 71.3         | 79.4  | 66.1     | -     | 73.4      | 67.0  | 49.2      | - | 71.9       | 80.2  | 66.6  | - | 72.5  | 81.1  | 67.2  | 308.4 |
| 321.5                    | - | 69.4         | 77.1  | 64.5     | -     | 69.9      | 65.3  | 48.4      | - | 70.1       | 78.0  | 65.0  | - | 70.8  | 78.8  | 65.6  | 321.5 |
| 334.6                    | - | 67.7         | 74.8  | 63.0     | -     | 67.9      | 63.7  | 47.6      | - | 68.3       | 75.7  | 63.4  | - | 69.0  | 76.5  | 64.0  | 334.6 |
| 347.8                    | - | 66.2         | 72.8  | 61.5     | -     | 66.3      | 62.3  | 46.9      | - | 66.9       | 73.6  | 61.9  | - | 67.4  | 74.3  | 62.4  | 347.8 |
| 360.9                    | - | 64.9         | 70.9  | 60.2     | -     | 64.4      | 60.9  | 46.2      | - | 65.5       | 71.7  | 60.6  | - | 65.9  | 72.4  | 61.1  | 360.9 |
| 374.0                    | - | 63.5         | 69.1  | 59.0     | -     | 63.3      | 59.7  | 45.4      | - | 64.2       | 69.9  | 59.5  | - | 64.6  | 70.5  | 59.9  | 374.0 |
| 387.1                    | - | 62.3         | 67.5  | 58.0     | -     | 62.5      | 58.6  | 45.0      | - | 62.9       | 68.1  | 58.4  | - | 63.4  | 66.4  | 58.9  | 387.1 |
| 400.3                    | - | 61.3         | 65.0  | 56.9     | -     | 61.9      | 57.5  | 44.5      | - | 61.7       | 63.7  | 57.3  | - | 62.2  | 60.0  | 57.8  | 400.3 |
| 410.1                    | - | 60.6         | 60.9  | 56.1     | -     | 61.5      | 56.7  | 44.3      | - | 60.9       | 59.4  | 56.2  | - | 61.4  | 55.4  | 56.0  | 410.1 |
| 413.4                    | - | 60.4         | 59.5  | 55.8     | -     | 61.3      | 56.4  | -         | - | 60.6       | 58.0  | 55.6  | - | 61.1  | 53.9  | 54.6  | 413.4 |
| 426.5                    | - | 59.5         | 53.6  | 54.5     | -     | 61.0      | 55.7  | -         | - | 58.7       | 52.2  | 52.9  | - | 56.9  | 48.1  | 49.2  | 426.5 |
| 439.6                    | - | 57.2         | 48.1  | 49.2     | -     | 60.3      | 55.0  | -         | - | 55.2       | 46.7  | 47.6  | - | 52.1  | 42.9  | 43.8  | 439.6 |
| 452.8                    | - | 52.2         | 43.3  | 43.9     | -     | 59.3      | 54.5  | -         | - | 50.5       | 42.0  | 42.5  | - | 47.4  | 38.0  | 38.8  | 452.8 |
| 459.3                    | - | -            | 40.9  | -        | -     | 57.4      | 54.2  | -         | - | 48.3       | 39.6  | 40.1  | - | 45.3  | 35.6  | 36.4  | 459.3 |
| 462.6                    | - | -            | 39.8  | -        | -     | 56.4      | 51.1  | -         | - | -          | 38.4  | -     | - | 44.2  | 34.5  | 35.2  | 462.6 |
| 465.9                    | - | -            | 38.6  | -        | -     | 55.5      | -     | -         | - | -          | 37.3  | -     | - | 43.2  | 33.3  | 34.0  | 465.9 |
| 469.2                    | - | -            | -     | -        | -     | 54.5      | -     | -         | - | -          | 36.2  | -     | - | 42.1  | 32.2  | 32.8  | 469.2 |
| 472.4                    | - | -            | -     | -        | -     | 53.6      | -     | -         | - | -          | 35.1  | -     | - | -     | 31.2  | -     | 472.4 |
| 479.0                    | - | -            | -     | -        | -     | -         | -     | -         | - | -          | -     | -     | - | -     | 29.1  | -     | 479.0 |
| 482.3                    | - | -            | -     | -        | -     | -         | -     | -         | - | -          | -     | -     | - | -     | 28.0  | -     | 482.3 |

0 lb   143,300 lb   209,500 lb   275,600 lb   363,800 lb   452,000 lb   584,300 lb   716,600 lb

LSL+LF\_2 – LSL+LF\_4: 36.1 ft – 62.3 ft

LSL+LF\_14: 42.7 ft – 68.9 ft

LSL+LF\_14: 496,100 lb + 110,200 lb

| <div> <div> <div></div> <div>363,800 lb + <div></div> 110,200 lb</div> </div> <div> <div></div> <div>36.1-68.9 ft</div> </div> <div> <div></div> <div>27.6 ft</div> </div> <div> <div></div> <div>32.2 ft/s</div> </div> <div> <div></div> <div>360°</div> </div> <div> <div></div> <div>ASME B30.5</div> </div> </div> |          |       |      |      |   |       |       |       |   |       |       |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|------|------|---|-------|-------|-------|---|-------|-------|-------|-------|
| <div> <div> <div>472.4 ft</div> <div>LSL+LF_2</div> <div>LSL+LF_4</div> <div>LSL+LF_14</div> </div> <div> <div>482.3 ft</div> <div>LSL+LF_4</div> <div>LSL+LF_14</div> </div> </div>                                                                                                                                    |          |       |      |      |   |       |       |       |   |       |       |       |       |
| <div> <div>78.7 ft</div> <div>0 lb</div> <div>0-716.6 klb</div> </div>                                                                                                                                                                                                                                                  |          |       |      |      |   |       |       |       |   |       |       |       |       |
| <div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> </div>                                                                                                                                       |          |       |      |      |   |       |       |       |   |       |       |       |       |
| ft                                                                                                                                                                                                                                                                                                                      | 1,000 lb |       |      |      |   |       |       |       |   |       |       |       | ft    |
| 75.5                                                                                                                                                                                                                                                                                                                    | 101.0    | 104.5 | -    | -    | - | -     | 192.9 | -     | - | -     | 191.8 | -     | 75.5  |
| 78.7                                                                                                                                                                                                                                                                                                                    | 100.8    | 104.1 | -    | -    | - | -     | 189.6 | -     | - | -     | 190.7 | -     | 78.7  |
| 82.0                                                                                                                                                                                                                                                                                                                    | 100.5    | 103.6 | 95.7 | -    | - | 121.3 | 186.3 | 133.4 | - | 116.8 | 187.4 | 133.4 | 82.0  |
| 85.3                                                                                                                                                                                                                                                                                                                    | 100.3    | 103.2 | 95.5 | -    | - | 120.2 | 183.0 | 131.2 | - | 116.8 | 184.1 | 131.7 | 85.3  |
| 91.9                                                                                                                                                                                                                                                                                                                    | 99.4     | 102.3 | 95.0 | 76.7 | - | 120.2 | 176.4 | 127.9 | - | 116.8 | 177.5 | 127.9 | 91.9  |
| 98.4                                                                                                                                                                                                                                                                                                                    | 97.2     | 101.4 | 94.4 | 75.6 | - | 120.2 | 170.3 | 124.6 | - | 116.8 | 171.4 | 124.6 | 98.4  |
| 111.5                                                                                                                                                                                                                                                                                                                   | 81.1     | 99.6  | 93.2 | 73.1 | - | 117.2 | 159.3 | 117.9 | - | 115.4 | 160.4 | 118.5 | 111.5 |
| 124.7                                                                                                                                                                                                                                                                                                                   | 66.6     | 97.9  | 91.9 | 70.7 | - | 113.9 | 149.9 | 112.3 | - | 113.2 | 151.0 | 113.0 | 124.7 |
| 137.8                                                                                                                                                                                                                                                                                                                   | 53.8     | 96.1  | 90.4 | 68.3 | - | 110.2 | 141.8 | 107.5 | - | 110.2 | 142.6 | 107.9 | 137.8 |
| 150.9                                                                                                                                                                                                                                                                                                                   | 43.8     | 94.4  | 88.9 | 66.1 | - | 106.0 | 134.5 | 102.5 | - | 106.6 | 134.5 | 103.2 | 150.9 |
| 164.0                                                                                                                                                                                                                                                                                                                   | 34.7     | 92.4  | 87.2 | 64.1 | - | 102.0 | 127.1 | 98.3  | - | 102.8 | 127.9 | 98.9  | 164.0 |
| 177.2                                                                                                                                                                                                                                                                                                                   | 26.5     | 90.2  | 85.1 | 62.2 | - | 98.3  | 120.9 | 94.3  | - | 99.0  | 122.0 | 94.9  | 177.2 |
| 190.3                                                                                                                                                                                                                                                                                                                   | 19.7     | 87.8  | 82.7 | 60.4 | - | 95.0  | 115.7 | 90.6  | - | 95.8  | 116.8 | 91.3  | 190.3 |
| 203.4                                                                                                                                                                                                                                                                                                                   | 13.5     | 85.5  | 80.5 | 58.7 | - | 91.8  | 110.3 | 87.1  | - | 92.4  | 111.5 | 87.9  | 203.4 |
| 216.5                                                                                                                                                                                                                                                                                                                   | 7.9      | 83.3  | 78.3 | 57.1 | - | 88.8  | 106.0 | 84.1  | - | 89.5  | 107.1 | 84.7  | 216.5 |
| 229.7                                                                                                                                                                                                                                                                                                                   | -        | 81.1  | 75.9 | 55.8 | - | 86.1  | 101.6 | 81.1  | - | 86.7  | 102.7 | 81.8  | 229.7 |
| 242.8                                                                                                                                                                                                                                                                                                                   | -        | 78.9  | 73.6 | 54.5 | - | 83.2  | 97.8  | 78.5  | - | 84.1  | 98.9  | 79.1  | 242.8 |
| 255.9                                                                                                                                                                                                                                                                                                                   | -        | 76.5  | 71.4 | 53.1 | - | 80.7  | 94.2  | 76.1  | - | 81.6  | 95.1  | 76.7  | 255.9 |
| 269.0                                                                                                                                                                                                                                                                                                                   | -        | 74.0  | 69.2 | 52.1 | - | 78.5  | 90.8  | 73.6  | - | 79.1  | 91.7  | 74.3  | 269.0 |
| 282.2                                                                                                                                                                                                                                                                                                                   | -        | 71.6  | 67.0 | 51.0 | - | 76.2  | 87.7  | 71.7  | - | 77.1  | 88.6  | 72.3  | 282.2 |
| 295.3                                                                                                                                                                                                                                                                                                                   | -        | 69.2  | 65.0 | 50.0 | - | 74.3  | 84.8  | 69.7  | - | 75.0  | 85.7  | 70.3  | 295.3 |
| 308.4                                                                                                                                                                                                                                                                                                                   | -        | 67.0  | 63.3 | 49.2 | - | 72.5  | 82.0  | 67.7  | - | 73.2  | 82.9  | 68.3  | 308.4 |
| 321.5                                                                                                                                                                                                                                                                                                                   | -        | 64.7  | 61.5 | 48.4 | - | 71.0  | 79.7  | 66.1  | - | 71.6  | 80.5  | 66.6  | 321.5 |
| 334.6                                                                                                                                                                                                                                                                                                                   | -        | 61.9  | 60.0 | 47.6 | - | 69.4  | 77.4  | 64.5  | - | 70.1  | 78.3  | 65.0  | 334.6 |
| 347.8                                                                                                                                                                                                                                                                                                                   | -        | 60.4  | 57.6 | 47.0 | - | 68.0  | 75.2  | 63.1  | - | 68.4  | 76.1  | 63.5  | 347.8 |
| 360.9                                                                                                                                                                                                                                                                                                                   | -        | 58.3  | 56.4 | 46.4 | - | 66.5  | 73.3  | 61.7  | - | 67.0  | 72.5  | 62.2  | 360.9 |
| 374.0                                                                                                                                                                                                                                                                                                                   | -        | 57.1  | 55.3 | 45.9 | - | 65.0  | 70.8  | 60.4  | - | 65.7  | 67.3  | 60.8  | 374.0 |
| 387.1                                                                                                                                                                                                                                                                                                                   | -        | 56.1  | 54.1 | 45.3 | - | 63.9  | 64.2  | 59.3  | - | 64.4  | 60.4  | 59.7  | 387.1 |
| 400.3                                                                                                                                                                                                                                                                                                                   | -        | 55.3  | 53.6 | 44.8 | - | 62.2  | 57.8  | 57.1  | - | 61.7  | 54.1  | 54.9  | 400.3 |
| 413.4                                                                                                                                                                                                                                                                                                                   | -        | 54.7  | 53.1 | 44.3 | - | 60.0  | 51.7  | 53.0  | - | 56.9  | 48.1  | 49.5  | 413.4 |
| 426.5                                                                                                                                                                                                                                                                                                                   | -        | 54.2  | 52.8 | 39.0 | - | 54.6  | 46.1  | 47.2  | - | 51.7  | 42.3  | 43.7  | 426.5 |
| 439.6                                                                                                                                                                                                                                                                                                                   | -        | 53.9  | 52.7 | -    | - | 49.7  | 40.8  | 41.9  | - | 46.8  | 37.0  | 38.4  | 439.6 |
| 452.8                                                                                                                                                                                                                                                                                                                   | -        | 53.6  | 52.7 | -    | - | 45.0  | 35.8  | 36.8  | - | 41.9  | 32.0  | 33.3  | 452.8 |
| 465.9                                                                                                                                                                                                                                                                                                                   | -        | 52.0  | 52.0 | -    | - | 40.6  | 31.1  | 32.0  | - | 37.6  | 27.3  | 28.4  | 465.9 |
| 475.7                                                                                                                                                                                                                                                                                                                   | -        | 50.0  | 50.5 | -    | - | 37.5  | 27.9  | 28.7  | - | 34.5  | 24.1  | 25.0  | 475.7 |
| 479.0                                                                                                                                                                                                                                                                                                                   | -        | 49.1  | 41.2 | -    | - | -     | 26.9  | -     | - | 33.6  | 23.1  | 23.9  | 479.0 |
| 485.6                                                                                                                                                                                                                                                                                                                   | -        | 47.3  | -    | -    | - | -     | 24.7  | -     | - | 15.7  | 20.9  | 21.8  | 485.6 |
| 492.1                                                                                                                                                                                                                                                                                                                   | -        | 45.4  | -    | -    | - | -     | 22.7  | -     | - | -     | 19.1  | -     | 492.1 |
| 498.7                                                                                                                                                                                                                                                                                                                   | -        | -     | -    | -    | - | -     | -     | -     | - | -     | 17.2  | -     | 498.7 |

0 lb

143,300 lb

209,500 lb

275,600 lb

363,800 lb

452,000 lb

584,300 lb

716,600 lb

LSL+LF\_2 – LSL+LF\_4: 36.1 ft – 62.3 ft

LSL+LF\_14: 42.7 ft – 68.9 ft

LSL+LF\_14: 496,100 lb + 110,200 lb

|  363,800 lb +  110,200 lb |  |  36.1-68.9 ft |  |  27.6 ft  |  |  32.2 ft/s |  | 360°                                                                                         |  | ASME B30.5                                                                                   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------|--|
|  492.1 ft                                                                                                  |  |  502.0 ft     |  |  511.8 ft |  |  521.7 ft  |  |  531.5 ft |  |  541.3 ft |  |
| LSL+LF.4                                                                                                                                                                                    |  | LSL+LF.14                                                                                      |  | LSL+LF.4                                                                                   |  | LSL+LF.14                                                                                     |  | LSL+LF.4                                                                                     |  | LSL+LF.14                                                                                    |  |
|  78.7 ft                                                                                                   |  |                                                                                                |  |                                                                                            |  |                                                                                               |  |                                                                                              |  |                                                                                              |  |
|  0 lb                                                                                                      |  | 0-716.6 klb                                                                                    |  | 0 lb                                                                                       |  | 0-716.6 klb                                                                                   |  |                                                                                              |  |                                                                                              |  |
|  20°                                                                                                       |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                       |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                       |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                       |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                       |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                       |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                       |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                       |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                       |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                      |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
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|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
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|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
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|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  | 20°                                                                                        |  | 15°                                                                                           |  | 20°                                                                                          |  | 15°                                                                                          |  |
|  20°                                                                                                     |  | 15°                                                                                            |  |                                                                                            |  |                                                                                               |  |                                                                                              |  |                                                                                              |  |



|      |            |            |            |            |            |            |            |
|------|------------|------------|------------|------------|------------|------------|------------|
| 0 lb | 143,300 lb | 209,500 lb | 275,600 lb | 363,800 lb | 452,000 lb | 584,300 lb | 716,600 lb |
|------|------------|------------|------------|------------|------------|------------|------------|

LSL+LF\_4:  36.1 ft – 62.3 ft

LSL+LF\_14:  42.7 ft – 68.9 ft

**LSL+LF\_14:**  496,100 lb +  110,200 lb



|  363,800 lb +  110,200 lb |       |                                                                                               |      |                                                                                       |       |                                                                                        |      |                                                                                               |       |                                                                                        |      |                                                                                         |       |                                                                                                 |      |  36.1-62.3 ft |       |                                                                                          |      |                                                                                                 |  |  27.6 ft |  |  |  |  |  |  32.2 ft/s |  |  |  |  |  | 360° |  |  | ASME B30.5 |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------|--|--|--|--|--|-----------------------------------------------------------------------------------------------|--|--|--|--|--|------|--|--|------------|--|--|
|  236.2 ft                                                                                                  |       |  255.9 ft    |      |                                                                                       |       |                                                                                        |      |  275.6 ft    |       |                                                                                        |      |                                                                                         |       |  295.3 ft    |      |                                                                                                |       |                                                                                          |      |  315.0 ft    |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| LSL+LF_2                                                                                                                                                                                    |       |                                                                                               |      |                                                                                       |       |                                                                                        |      |                                                                                               |       |                                                                                        |      |                                                                                         |       |                                                                                                 |      |                                                                                                |       |                                                                                          |      |                                                                                                 |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 118.1 ft                                                                                                                                                                                    |       |                                                                                               |      |                                                                                       |       |                                                                                        |      |                                                                                               |       |                                                                                        |      |                                                                                         |       |                                                                                                 |      |                                                                                                |       |                                                                                          |      |                                                                                                 |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
|  0 lb                                                                                                      |       |  0-716.6 klb |      |                                                                                       |       |  0 lb |      |  0-716.6 klb |       |                                                                                        |      |  0 lb  |       |  0-716.6 klb |      |                                                                                                |       |  0 lb |      |  0-716.6 klb |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
|  15°                                                                                                       |       |  20°         |      |  30° |       |  15°  |      |  20°         |       |  30° |      |  15° |       |  20°         |      |  30°        |       |       |      |                                                                                                 |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| ft                                                                                                                                                                                          |       | 1,000 lb                                                                                      |      |                                                                                       |       |                                                                                        |      |                                                                                               |       |                                                                                        |      |                                                                                         |       |                                                                                                 |      |                                                                                                |       | ft                                                                                       |      |                                                                                                 |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 65.6                                                                                                                                                                                        | 114.6 | 114.6                                                                                         | -    | -                                                                                     | -     | -                                                                                      | -    | -                                                                                             | -     | -                                                                                      | -    | -                                                                                       | -     | -                                                                                               | -    | -                                                                                              | -     | -                                                                                        | -    | 65.6                                                                                            |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 68.9                                                                                                                                                                                        | 111.8 | 112.0                                                                                         | -    | -                                                                                     | 112.4 | 112.4                                                                                  | -    | -                                                                                             | 112.4 | 113.5                                                                                  | -    | -                                                                                       | -     | -                                                                                               | -    | -                                                                                              | -     | -                                                                                        | -    | 68.9                                                                                            |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 72.2                                                                                                                                                                                        | 108.9 | 109.3                                                                                         | -    | -                                                                                     | 109.8 | 110.2                                                                                  | -    | -                                                                                             | 110.2 | 110.2                                                                                  | -    | -                                                                                       | 110.2 | 111.3                                                                                           | -    | -                                                                                              | -     | -                                                                                        | -    | 72.2                                                                                            |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 75.5                                                                                                                                                                                        | 106.3 | 106.7                                                                                         | 84.7 | -                                                                                     | 107.3 | 107.7                                                                                  | -    | -                                                                                             | 107.8 | 108.1                                                                                  | -    | -                                                                                       | 108.2 | 109.1                                                                                           | -    | -                                                                                              | 108.7 | 109.3                                                                                    | -    | 75.5                                                                                            |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 78.7                                                                                                                                                                                        | 103.6 | 104.1                                                                                         | 82.9 | -                                                                                     | 104.7 | 105.2                                                                                  | 83.3 | -                                                                                             | 105.4 | 106.0                                                                                  | 83.6 | -                                                                                       | 106.3 | 106.9                                                                                           | -    | -                                                                                              | 106.5 | 107.1                                                                                    | -    | 78.7                                                                                            |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 82.0                                                                                                                                                                                        | 101.2 | 101.6                                                                                         | 81.1 | -                                                                                     | 102.3 | 102.8                                                                                  | 81.6 | -                                                                                             | 103.1 | 103.7                                                                                  | 81.9 | -                                                                                       | 104.1 | 104.6                                                                                           | 82.2 | -                                                                                              | 104.4 | 104.9                                                                                    | 82.2 | 82.0                                                                                            |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 85.3                                                                                                                                                                                        | 98.8  | 99.2                                                                                          | 79.4 | -                                                                                     | 99.9  | 100.5                                                                                  | 79.8 | -                                                                                             | 100.8 | 101.4                                                                                  | 80.2 | -                                                                                       | 101.9 | 102.3                                                                                           | 80.7 | -                                                                                              | 102.3 | 102.7                                                                                    | 80.9 | 85.3                                                                                            |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 91.9                                                                                                                                                                                        | 94.4  | 95.0                                                                                          | 76.1 | -                                                                                     | 95.7  | 96.1                                                                                   | 76.7 | -                                                                                             | 96.8  | 97.2                                                                                   | 77.4 | -                                                                                       | 97.7  | 98.3                                                                                            | 77.8 | -                                                                                              | 98.3  | 99.0                                                                                     | 78.0 | 91.9                                                                                            |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 95.1                                                                                                                                                                                        | 92.4  | 92.9                                                                                          | 74.6 | 48.1                                                                                  | 93.8  | 94.2                                                                                   | 75.4 | 48.1                                                                                          | 94.9  | 95.3                                                                                   | 75.9 | -                                                                                       | 95.9  | 96.5                                                                                            | 76.5 | -                                                                                              | 96.6  | 97.1                                                                                     | 76.7 | 95.1                                                                                            |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 98.4                                                                                                                                                                                        | 90.4  | 90.8                                                                                          | 73.2 | 47.4                                                                                  | 91.9  | 92.4                                                                                   | 74.1 | 47.4                                                                                          | 93.0  | 93.5                                                                                   | 74.5 | 47.4                                                                                    | 94.1  | 94.6                                                                                            | 75.2 | 47.4                                                                                           | 94.8  | 95.2                                                                                     | 75.4 | 98.4                                                                                            |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 101.7                                                                                                                                                                                       | 88.6  | 89.0                                                                                          | 71.9 | 46.7                                                                                  | 90.2  | 90.6                                                                                   | 72.8 | 46.7                                                                                          | 91.3  | 91.8                                                                                   | 73.3 | 46.8                                                                                    | 92.5  | 93.0                                                                                            | 74.0 | 46.8                                                                                           | 93.3  | 93.7                                                                                     | 74.3 | 101.7                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 111.5                                                                                                                                                                                       | 83.3  | 83.6                                                                                          | 68.0 | 44.6                                                                                  | 85.0  | 85.3                                                                                   | 69.1 | 44.8                                                                                          | 86.3  | 86.7                                                                                   | 69.8 | 44.9                                                                                    | 87.7  | 88.1                                                                                            | 70.6 | 45.0                                                                                           | 88.6  | 88.9                                                                                     | 71.0 | 111.5                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 124.7                                                                                                                                                                                       | 76.9  | 77.1                                                                                          | 63.3 | 42.0                                                                                  | 78.6  | 78.9                                                                                   | 64.4 | 42.3                                                                                          | 80.1  | 80.5                                                                                   | 65.4 | 42.5                                                                                    | 81.6  | 82.1                                                                                            | 66.3 | 42.8                                                                                           | 82.8  | 83.0                                                                                     | 66.9 | 124.7                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 137.8                                                                                                                                                                                       | 71.0  | 71.2                                                                                          | 59.1 | 39.7                                                                                  | 72.8  | 73.0                                                                                   | 60.2 | 39.9                                                                                          | 74.5  | 74.7                                                                                   | 61.3 | 40.3                                                                                    | 76.1  | 76.5                                                                                            | 62.2 | 40.6                                                                                           | 77.4  | 77.6                                                                                     | 63.1 | 137.8                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 150.9                                                                                                                                                                                       | 66.3  | 66.5                                                                                          | 55.6 | 37.6                                                                                  | 68.0  | 68.3                                                                                   | 56.7 | 38.0                                                                                          | 69.7  | 70.0                                                                                   | 57.8 | 38.4                                                                                    | 71.4  | 71.7                                                                                            | 58.8 | 38.8                                                                                           | 71.8  | 72.9                                                                                     | 59.7 | 150.9                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 164.0                                                                                                                                                                                       | 62.2  | 62.5                                                                                          | 52.4 | 35.8                                                                                  | 63.9  | 64.1                                                                                   | 53.5 | 36.2                                                                                          | 65.3  | 65.8                                                                                   | 54.6 | 36.7                                                                                    | 66.2  | 67.3                                                                                            | 55.6 | 37.1                                                                                           | 65.6  | 68.6                                                                                     | 56.5 | 164.0                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 177.2                                                                                                                                                                                       | 58.6  | 59.1                                                                                          | 49.6 | 34.2                                                                                  | 60.2  | 60.4                                                                                   | 50.7 | 34.6                                                                                          | 61.5  | 61.9                                                                                   | 51.8 | 35.1                                                                                    | 60.6  | 63.5                                                                                            | 52.7 | 35.5                                                                                           | 57.8  | 64.6                                                                                     | 53.6 | 177.2                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 190.3                                                                                                                                                                                       | 55.7  | 56.0                                                                                          | 47.3 | 32.8                                                                                  | 56.2  | 57.6                                                                                   | 48.5 | 33.3                                                                                          | 55.2  | 59.0                                                                                   | 49.5 | 33.7                                                                                    | 53.0  | 60.4                                                                                            | 50.5 | 34.2                                                                                           | 50.4  | 61.4                                                                                     | 51.1 | 190.3                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 203.4                                                                                                                                                                                       | 51.8  | 53.1                                                                                          | 45.0 | 31.6                                                                                  | 50.8  | 54.8                                                                                   | 46.3 | 32.0                                                                                          | 48.6  | 56.2                                                                                   | 47.3 | 32.5                                                                                    | 45.6  | 57.6                                                                                            | 48.4 | 32.9                                                                                           | 43.4  | 58.4                                                                                     | 48.8 | 203.4                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 216.5                                                                                                                                                                                       | 47.0  | 50.3                                                                                          | 43.0 | 30.4                                                                                  | 43.9  | 52.0                                                                                   | 44.1 | 30.9                                                                                          | 41.7  | 53.6                                                                                   | 45.2 | 31.3                                                                                    | 38.6  | 55.1                                                                                            | 46.3 | 31.7                                                                                           | 36.8  | 55.8                                                                                     | 46.7 | 216.5                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 229.7                                                                                                                                                                                       | 41.4  | 47.9                                                                                          | 41.2 | 29.4                                                                                  | 38.1  | 49.7                                                                                   | 42.3 | 29.8                                                                                          | 35.9  | 51.2                                                                                   | 43.4 | 30.3                                                                                    | 32.8  | 52.8                                                                                            | 44.5 | 30.7                                                                                           | 31.1  | 53.4                                                                                     | 45.0 | 229.7                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 242.8                                                                                                                                                                                       | 36.2  | 45.7                                                                                          | 39.5 | 28.5                                                                                  | 32.9  | 47.5                                                                                   | 40.6 | 28.9                                                                                          | 30.7  | 49.0                                                                                   | 41.7 | 29.3                                                                                    | 27.6  | 50.5                                                                                            | 42.8 | 29.8                                                                                           | 25.8  | 51.2                                                                                     | 43.3 | 242.8                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 255.9                                                                                                                                                                                       | 31.5  | 43.7                                                                                          | 37.9 | 27.8                                                                                  | 28.2  | 45.4                                                                                   | 39.0 | 28.0                                                                                          | 26.0  | 47.0                                                                                   | 40.1 | 28.4                                                                                    | 22.7  | 48.3                                                                                            | 41.2 | 28.9                                                                                           | 20.9  | 49.2                                                                                     | 41.7 | 255.9                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 269.0                                                                                                                                                                                       | 27.4  | 41.9                                                                                          | 36.6 | 27.0                                                                                  | 24.1  | 43.5                                                                                   | 37.7 | 27.4                                                                                          | 21.9  | 45.0                                                                                   | 38.8 | 27.7                                                                                    | 18.6  | 46.4                                                                                            | 39.8 | 28.1                                                                                           | 16.8  | 47.3                                                                                     | 40.2 | 269.0                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 282.2                                                                                                                                                                                       | 23.7  | 40.3                                                                                          | 35.4 | 26.6                                                                                  | 20.4  | 41.8                                                                                   | 36.4 | 26.9                                                                                          | 18.2  | 43.3                                                                                   | 37.6 | 27.1                                                                                    | 14.8  | 44.6                                                                                            | 38.4 | 27.5                                                                                           | 13.0  | 45.5                                                                                     | 38.9 | 282.2                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 288.7                                                                                                                                                                                       | 22.0  | 39.5                                                                                          | 34.9 | 26.5                                                                                  | 18.7  | 41.1                                                                                   | 35.9 | 26.7                                                                                          | 16.5  | 42.5                                                                                   | 37.0 | 26.9                                                                                    | 13.0  | 43.8                                                                                            | 37.8 | 27.2                                                                                           | 11.2  | 44.7                                                                                     | 38.3 | 288.7                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 295.3                                                                                                                                                                                       | 20.3  | 38.8                                                                                          | 34.4 | -                                                                                     | 17.0  | 40.3                                                                                   | 35.3 | 26.5                                                                                          | 14.8  | 41.7                                                                                   | 36.4 | 26.7                                                                                    | 11.2  | 43.0                                                                                            | 37.3 | 26.9                                                                                           | 9.5   | 43.9                                                                                     | 37.7 | 295.3                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 301.8                                                                                                                                                                                       | 18.8  | 38.2                                                                                          | 34.0 | -                                                                                     | 15.4  | 39.7                                                                                   | 34.8 | 26.2                                                                                          | 13.2  | 41.0                                                                                   | 35.8 | 26.5                                                                                    | 9.7   | 42.4                                                                                            | 36.7 | 26.7                                                                                           | 7.9   | 43.2                                                                                     | 37.3 | 301.8                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 308.4                                                                                                                                                                                       | 17.3  | 37.6                                                                                          | 33.5 | -                                                                                     | 13.9  | 39.0                                                                                   | 34.4 | -                                                                                             | 11.7  | 40.3                                                                                   | 35.2 | 26.2                                                                                    | 8.2   | 41.7                                                                                            | 36.2 | 26.5                                                                                           | -     | 42.4                                                                                     | 36.7 | 308.4                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 315.0                                                                                                                                                                                       | 15.9  | 37.0                                                                                          | 33.1 | -                                                                                     | 12.3  | 38.4                                                                                   | 34.0 | -                                                                                             | 10.1  | 39.7                                                                                   | 34.6 | 26.0                                                                                    | -     | 40.8                                                                                            | 35.7 | 26.2                                                                                           | -     | 41.7                                                                                     | 36.2 | 315.0                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 321.5                                                                                                                                                                                       | 14.6  | 36.6                                                                                          | -    | -                                                                                     | 11.1  | 37.8                                                                                   | 33.5 | -                                                                                             | 8.8   | 39.1                                                                                   | 34.3 | -                                                                                       | -     | 40.2                                                                                            | 35.2 | 26.1                                                                                           | -     | 41.1                                                                                     | 35.7 | 321.5                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 324.8                                                                                                                                                                                       | 13.9  | 36.4                                                                                          | -    | -                                                                                     | 10.5  | 37.6                                                                                   | 33.3 | -                                                                                             | 8.2   | 38.8                                                                                   | 34.1 | -                                                                                       | -     | 39.9                                                                                            | 34.9 | 26.0                                                                                           | -     | 40.8                                                                                     | 35.5 | 324.8                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 331.4                                                                                                                                                                                       | -     | -                                                                                             | -    | -                                                                                     | 9.2   | 37.1                                                                                   | 32.8 | -                                                                                             | -     | 38.2                                                                                   | 33.7 | -                                                                                       | -     | 39.3                                                                                            | 34.4 | 25.8                                                                                           | -     | 40.2                                                                                     | 35.1 | 331.4                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 334.6                                                                                                                                                                                       | -     | -                                                                                             | -    | -                                                                                     | 8.6   | 36.8                                                                                   | -    | -                                                                                             | -     | 37.9                                                                                   | 33.5 | -                                                                                       | -     | 39.0                                                                                            | 34.2 | -                                                                                              | -     | 39.9                                                                                     | 34.8 | 334.6                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 337.9                                                                                                                                                                                       | -     | -                                                                                             | -    | -                                                                                     | 7.9   | 36.6                                                                                   | -    | -                                                                                             | -     | 37.7                                                                                   | 33.3 | -                                                                                       | -     | 38.8                                                                                            | 34.0 | -                                                                                              | -     | 39.6                                                                                     | 34.6 | 337.9                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 341.2                                                                                                                                                                                       | -     | -                                                                                             | -    | -                                                                                     | 36.4  | -                                                                                      | -    | -                                                                                             | -     | 37.4                                                                                   | 33.2 | -                                                                                       | -     | 38.5                                                                                            | 33.8 | -                                                                                              | -     | 39.4                                                                                     | 34.5 | 341.2                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 344.5                                                                                                                                                                                       | -     | -                                                                                             | -    | -                                                                                     | -     | -                                                                                      | -    | -                                                                                             | -     | 37.1                                                                                   | 33.0 | -                                                                                       | -     | 38.3                                                                                            | 33.6 | -                                                                                              | -     | 39.1                                                                                     | 34.3 | 344.5                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 347.8                                                                                                                                                                                       | -     | -                                                                                             | -    | -                                                                                     | -     | -                                                                                      | -    | -                                                                                             | -     | 36.9                                                                                   | 32.8 | -                                                                                       | -     | 38.0                                                                                            | 33.4 | -                                                                                              | -     | 38.9                                                                                     | 34.1 | 347.8                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 357.6                                                                                                                                                                                       | -     | -                                                                                             | -    | -                                                                                     | -     | -                                                                                      | -    | -                                                                                             | -     | 36.2                                                                                   | -    | -                                                                                       | -     | 37.3                                                                                            | 32.9 | -                                                                                              | -     | 38.1                                                                                     | 33.6 | 357.6                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 360.9                                                                                                                                                                                       | -     | -                                                                                             | -    | -                                                                                     | -     | -                                                                                      | -    | -                                                                                             | -     | -                                                                                      | -    | -                                                                                       | -     | 37.0                                                                                            | 32.8 | -                                                                                              | -     | 37.9                                                                                     | 33.4 | 360.9                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 364.2                                                                                                                                                                                       | -     | -                                                                                             | -    | -                                                                                     | -     | -                                                                                      | -    | -                                                                                             | -     | -                                                                                      | -    | -                                                                                       | -     | 36.8                                                                                            | 32.6 | -                                                                                              | -     | 37.7                                                                                     | 33.3 | 364.2                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 374.0                                                                                                                                                                                       | -     | -                                                                                             | -    | -                                                                                     | -     | -                                                                                      | -    | -                                                                                             | -     | -                                                                                      | -    | -                                                                                       | -     | 36.2                                                                                            | -    | -                                                                                              | -     | 37.0                                                                                     | 32.8 | 374.0                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 380.6                                                                                                                                                                                       | -     | -                                                                                             | -    | -                                                                                     | -     | -                                                                                      | -    | -                                                                                             | -     | -                                                                                      | -    | -                                                                                       | -     | -                                                                                               | -    | -                                                                                              | -     | 36.7                                                                                     | 32.6 | 380.6                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 387.1                                                                                                                                                                                       | -     | -                                                                                             | -    | -                                                                                     | -     | -                                                                                      | -    | -                                                                                             | -     | -                                                                                      | -    | -                                                                                       | -     | -                                                                                               | -    | -                                                                                              | -     | 36.3                                                                                     | -    | 387.1                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |
| 393.7                                                                                                                                                                                       | -     | -                                                                                             | -    | -                                                                                     | -     | -                                                                                      | -    | -                                                                                             | -     | -                                                                                      | -    | -                                                                                       | -     | -                                                                                               | -    | -                                                                                              | -     | 35.9                                                                                     | -    | 393.7                                                                                           |  |                                                                                           |  |  |  |  |  |                                                                                               |  |  |  |  |  |      |  |  |            |  |  |

|                                                                                     |      |            |            |            |            |            |            |            |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|------------|
|  | 0 lb | 143,300 lb | 209,500 lb | 275,600 lb | 363,800 lb | 452,000 lb | 584,300 lb | 716,600 lb |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|------------|

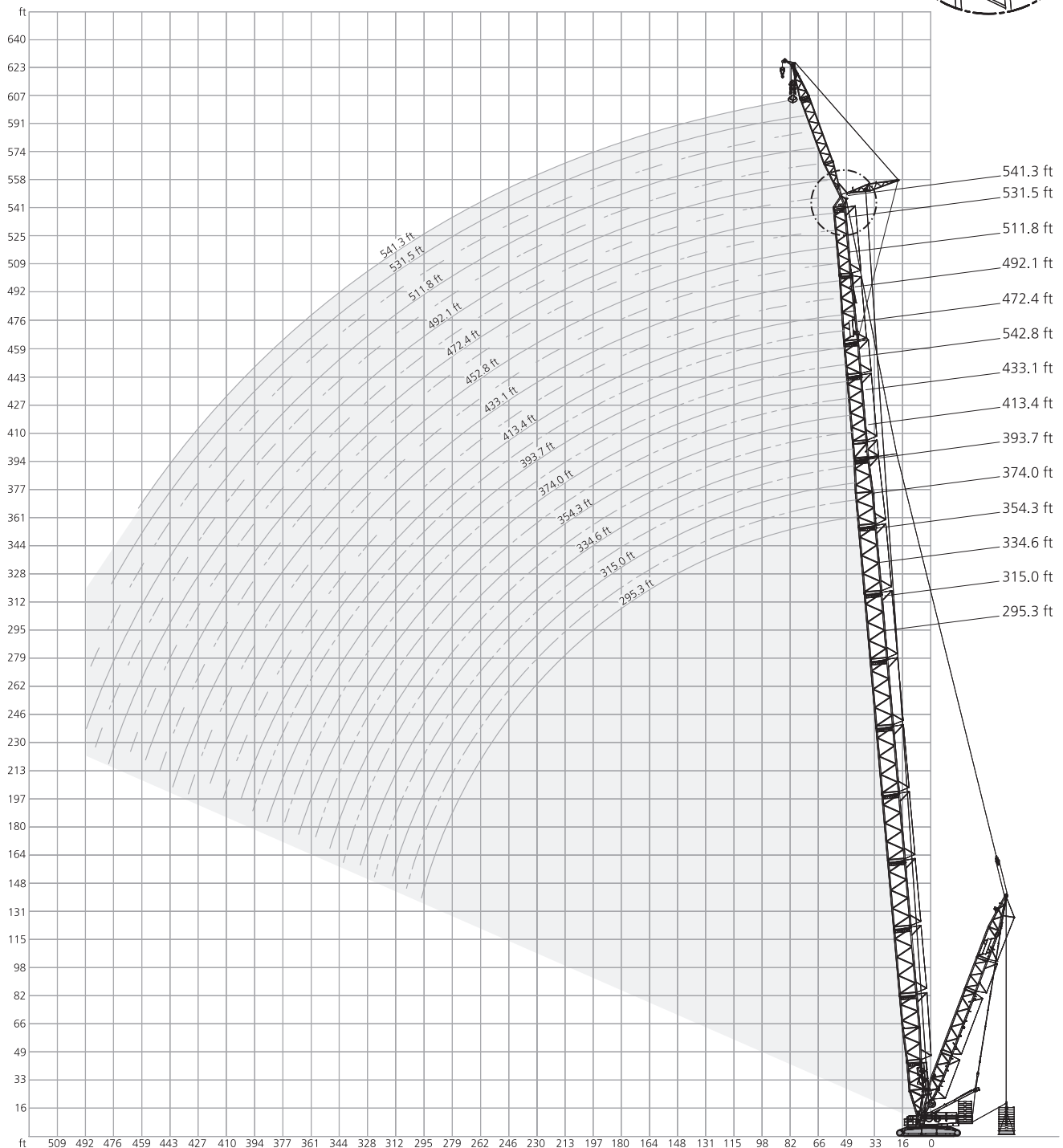
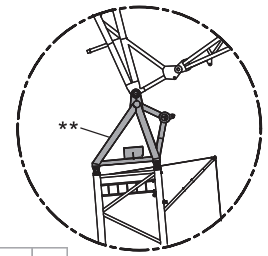
|  363,800 lb +  110,200 lb |       |             |  36.1-62.3 ft |      |             |  27.6 ft |      |             |  32.2 ft/s |       |             | 360° ASME B30.5 |       |             |                                                                                     |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|------------------------------------------------------------------------------------------------|------|-------------|-------------------------------------------------------------------------------------------|------|-------------|-----------------------------------------------------------------------------------------------|-------|-------------|-----------------|-------|-------------|-------------------------------------------------------------------------------------|-------|
|  334.6 ft                                                                                                  |       | 354.3 ft    |                                                                                                |      | 374.0 ft    |                                                                                           |      | 393.7 ft    |                                                                                               |       | 413.4 ft    |                 |       |             |                                                                                     |       |
| LSL+LF_2                                                                                                                                                                                    |       |             |                                                                                                |      |             |                                                                                           |      |             |                                                                                               |       |             |                 |       |             |                                                                                     |       |
| 118.1 ft                                                                                                                                                                                    |       |             |                                                                                                |      |             |                                                                                           |      |             |                                                                                               |       |             |                 |       |             |                                                                                     |       |
|  0 lb                                                                                                      |       | 0-716.6 klb |                                                                                                | 0 lb | 0-716.6 klb |                                                                                           | 0 lb | 0-716.6 klb |                                                                                               | 0 lb  | 0-716.6 klb |                 | 0 lb  | 0-716.6 klb |                                                                                     |       |
|  15°                                                                                                       |       | 20°         |                                                                                                | 30°  | 15°         |                                                                                           | 20°  |             | 30°                                                                                           | 15°   |             | 20°             |       | 30°         |  |       |
| ft                                                                                                                                                                                          |       | 1,000 lb    |                                                                                                |      |             |                                                                                           |      |             |                                                                                               |       |             |                 |       |             | ft                                                                                  |       |
| 75.5                                                                                                                                                                                        | 109.1 | 110.0       | -                                                                                              | -    | -           | -                                                                                         | -    | -           | -                                                                                             | -     | -           | -               | -     | -           | -                                                                                   | 75.5  |
| 78.7                                                                                                                                                                                        | 107.1 | 107.8       | -                                                                                              | -    | 107.4       | 108.2                                                                                     | -    | -           | 107.6                                                                                         | 108.5 | -           | -               | -     | -           | -                                                                                   | 78.7  |
| 82.0                                                                                                                                                                                        | 105.1 | 105.7       | -                                                                                              | -    | 105.5       | 106.3                                                                                     | -    | -           | 105.8                                                                                         | 106.6 | -           | -               | 102.3 | 105.4       | -                                                                                   | 82.0  |
| 85.3                                                                                                                                                                                        | 103.0 | 103.6       | 81.1                                                                                           | -    | 103.6       | 104.3                                                                                     | -    | -           | 104.1                                                                                         | 104.7 | -           | -               | 101.4 | 103.6       | -                                                                                   | 85.3  |
| 88.6                                                                                                                                                                                        | 101.1 | 101.7       | 79.8                                                                                           | -    | 101.7       | 102.4                                                                                     | 80.0 | -           | 102.3                                                                                         | 103.0 | 80.2        | -               | 100.6 | 102.2       | -                                                                                   | 88.6  |
| 91.9                                                                                                                                                                                        | 99.2  | 99.9        | 78.5                                                                                           | -    | 99.9        | 100.5                                                                                     | 78.7 | -           | 100.5                                                                                         | 101.2 | 78.9        | -               | 99.9  | 100.8       | 78.5                                                                                | 91.9  |
| 98.4                                                                                                                                                                                        | 95.7  | 96.3        | 76.1                                                                                           | -    | 96.6        | 97.2                                                                                      | 76.3 | -           | 97.4                                                                                          | 97.9  | 76.7        | -               | 97.0  | 97.7        | 76.5                                                                                | 98.4  |
| 101.7                                                                                                                                                                                       | 94.2  | 94.8        | 75.0                                                                                           | 46.7 | 95.1        | 95.7                                                                                      | 75.3 | -           | 95.8                                                                                          | 96.5  | 75.7        | -               | 95.2  | 96.3        | 75.5                                                                                | 101.7 |
| 105.0                                                                                                                                                                                       | 92.7  | 93.3        | 73.9                                                                                           | 46.2 | 93.6        | 94.1                                                                                      | 74.2 | 46.1        | 94.3                                                                                          | 95.0  | 74.7        | 46.1            | 93.6  | 94.9        | 74.5                                                                                | 105.0 |
| 108.3                                                                                                                                                                                       | 91.2  | 91.7        | 72.8                                                                                           | 45.6 | 92.2        | 92.6                                                                                      | 73.2 | 45.5        | 92.8                                                                                          | 93.6  | 73.6        | 45.6            | 92.2  | 93.5        | 73.5                                                                                | 108.3 |
| 111.5                                                                                                                                                                                       | 89.7  | 90.2        | 71.7                                                                                           | 45.0 | 90.7        | 91.1                                                                                      | 72.2 | 45.0        | 91.3                                                                                          | 92.2  | 72.6        | 45.1            | 90.7  | 92.1        | 72.5                                                                                | 111.5 |
| 124.7                                                                                                                                                                                       | 84.0  | 84.4        | 67.6                                                                                           | 42.9 | 83.8        | 85.6                                                                                      | 68.3 | 43.0        | 82.7                                                                                          | 86.8  | 68.8        | 43.1            | 81.5  | 87.0        | 68.9                                                                                | 124.7 |
| 137.8                                                                                                                                                                                       | 78.7  | 79.1        | 63.9                                                                                           | 41.0 | 77.8        | 80.5                                                                                      | 64.6 | 41.2        | 73.2                                                                                          | 81.8  | 65.3        | 41.2            | 69.9  | 82.5        | 65.7                                                                                | 137.8 |
| 150.9                                                                                                                                                                                       | 70.5  | 74.4        | 60.6                                                                                           | 39.2 | 66.9        | 75.9                                                                                      | 61.4 | 39.5        | 62.5                                                                                          | 77.2  | 62.2        | 39.6            | 59.2  | 82.6        | 62.8                                                                                | 150.9 |
| 164.0                                                                                                                                                                                       | 62.2  | 70.1        | 57.5                                                                                           | 37.6 | 57.2        | 71.7                                                                                      | 58.3 | 37.8        | 52.7                                                                                          | 73.0  | 59.2        | 38.1            | 49.5  | 74.1        | 59.9                                                                                | 164.0 |
| 177.2                                                                                                                                                                                       | 53.4  | 66.1        | 54.7                                                                                           | 36.2 | 48.5        | 67.7                                                                                      | 55.6 | 36.4        | 43.9                                                                                          | 69.0  | 56.4        | 36.6            | 41.0  | 70.1        | 57.1                                                                                | 177.2 |
| 190.3                                                                                                                                                                                       | 46.2  | 62.9        | 52.2                                                                                           | 34.7 | 41.3        | 64.3                                                                                      | 53.1 | 35.1        | 36.8                                                                                          | 65.6  | 53.9        | 35.3            | 33.8  | 66.7        | 54.6                                                                                | 190.3 |
| 203.4                                                                                                                                                                                       | 39.5  | 60.0        | 49.9                                                                                           | 33.4 | 34.7        | 61.2                                                                                      | 50.7 | 33.8        | 30.3                                                                                          | 62.5  | 51.6        | 34.0            | 27.3  | 63.6        | 52.2                                                                                | 203.4 |
| 216.5                                                                                                                                                                                       | 33.3  | 57.3        | 47.8                                                                                           | 32.4 | 28.7        | 58.4                                                                                      | 48.5 | 32.6        | 24.3                                                                                          | 59.5  | 49.4        | 32.8            | 21.4  | 60.6        | 50.0                                                                                | 216.5 |
| 229.7                                                                                                                                                                                       | 27.7  | 55.0        | 46.1                                                                                           | 31.4 | 23.5        | 56.1                                                                                      | 46.7 | 31.6        | 19.1                                                                                          | 57.2  | 47.6        | 31.8            | 16.4  | 58.1        | 48.1                                                                                | 229.7 |
| 242.8                                                                                                                                                                                       | 22.5  | 52.7        | 44.4                                                                                           | 30.4 | 18.6        | 53.8                                                                                      | 45.0 | 30.6        | 14.3                                                                                          | 54.9  | 45.9        | 30.9            | 11.7  | 55.7        | 46.3                                                                                | 242.8 |
| 246.1                                                                                                                                                                                       | 21.3  | 52.1        | 44.0                                                                                           | 30.1 | 17.4        | 53.2                                                                                      | 44.6 | 30.4        | 13.2                                                                                          | 54.3  | 45.5        | 30.6            | 10.6  | 55.2        | 45.9                                                                                | 246.1 |
| 252.6                                                                                                                                                                                       | 18.8  | 51.0        | 43.2                                                                                           | 29.6 | 15.1        | 52.1                                                                                      | 43.8 | 30.0        | 11.0                                                                                          | 53.2  | 44.7        | 30.2            | 8.4   | 54.1        | 45.1                                                                                | 252.6 |
| 255.9                                                                                                                                                                                       | 17.6  | 50.5        | 42.8                                                                                           | 29.3 | 13.9        | 51.6                                                                                      | 43.4 | 29.8        | 9.9                                                                                           | 52.7  | 44.3        | 30.0            | -     | 53.6        | 44.8                                                                                | 255.9 |
| 262.5                                                                                                                                                                                       | 15.6  | 49.5        | 42.0                                                                                           | 29.0 | 11.8        | 50.7                                                                                      | 42.7 | 29.3        | 7.9                                                                                           | 51.8  | 43.6        | 29.6            | -     | 52.6        | 44.0                                                                                | 262.5 |
| 269.0                                                                                                                                                                                       | 13.5  | 48.6        | 41.3                                                                                           | 28.6 | 9.7         | 49.7                                                                                      | 42.0 | 28.9        | -                                                                                             | 50.8  | 42.8        | 29.2            | -     | 51.7        | 43.3                                                                                | 269.0 |
| 272.3                                                                                                                                                                                       | 12.5  | 48.1        | 40.9                                                                                           | 28.4 | 8.6         | 49.2                                                                                      | 41.7 | 28.7        | -                                                                                             | 50.3  | 42.5        | 29.1            | -     | 51.2        | 42.9                                                                                | 272.3 |
| 282.2                                                                                                                                                                                       | 9.6   | 46.8        | 39.9                                                                                           | 27.9 | -           | 47.9                                                                                      | 40.7 | 28.3        | -                                                                                             | 48.9  | 41.4        | 28.5            | -     | 49.8        | 41.9                                                                                | 282.2 |
| 288.7                                                                                                                                                                                       | 7.7   | 46.1        | 39.3                                                                                           | 27.6 | -           | 47.1                                                                                      | 39.9 | 27.9        | -                                                                                             | 48.1  | 40.8        | 28.1            | -     | 48.9        | 41.2                                                                                | 288.7 |
| 295.3                                                                                                                                                                                       | -     | 45.2        | 38.6                                                                                           | 27.3 | -           | 46.3                                                                                      | 39.2 | 27.6        | -                                                                                             | 47.2  | 40.1        | 27.8            | -     | 48.1        | 40.6                                                                                | 295.3 |
| 308.4                                                                                                                                                                                       | -     | 43.7        | 37.6                                                                                           | 26.8 | -           | 44.7                                                                                      | 38.2 | 27.0        | -                                                                                             | 45.7  | 38.9        | 27.2            | -     | 46.4        | 39.4                                                                                | 308.4 |
| 321.5                                                                                                                                                                                       | -     | 42.3        | 36.6                                                                                           | 26.2 | -           | 43.2                                                                                      | 37.2 | 26.5        | -                                                                                             | 44.3  | 37.8        | 26.7            | -     | 45.0        | 38.3                                                                                | 321.5 |
| 334.6                                                                                                                                                                                       | -     | 41.0        | 35.7                                                                                           | 25.8 | -           | 41.9                                                                                      | 36.2 | 26.0        | -                                                                                             | 43.0  | 36.8        | 26.2            | -     | 43.7        | 37.3                                                                                | 334.6 |
| 347.8                                                                                                                                                                                       | -     | 40.0        | 34.8                                                                                           | 25.5 | -           | 40.9                                                                                      | 35.4 | 25.7        | -                                                                                             | 41.8  | 35.9        | 25.8            | -     | 42.5        | 36.4                                                                                | 347.8 |
| 357.6                                                                                                                                                                                       | -     | 39.2        | 34.2                                                                                           | 25.4 | -           | 40.1                                                                                      | 34.9 | 25.5        | -                                                                                             | 41.0  | 35.3        | 25.6            | -     | 41.4        | 35.8                                                                                | 357.6 |
| 360.9                                                                                                                                                                                       | -     | 38.9        | 34.1                                                                                           | -    | -           | 39.8                                                                                      | 34.7 | 25.4        | -                                                                                             | 40.7  | 35.1        | 25.5            | -     | 41.2        | 35.6                                                                                | 360.9 |
| 374.0                                                                                                                                                                                       | -     | 37.9        | 33.5                                                                                           | -    | -           | 38.8                                                                                      | 34.0 | 25.1        | -                                                                                             | 39.7  | 34.4        | 25.1            | -     | 40.3        | 34.8                                                                                | 374.0 |
| 387.1                                                                                                                                                                                       | -     | 37.2        | 32.9                                                                                           | -    | -           | 37.9                                                                                      | 33.4 | -           | -                                                                                             | 38.8  | 33.9        | 24.9            | -     | 39.3        | 34.2                                                                                | 387.1 |
| 397.0                                                                                                                                                                                       | -     | 36.6        | 32.4                                                                                           | -    | -           | 37.3                                                                                      | 33.0 | -           | -                                                                                             | 38.2  | 33.4        | -               | -     | 38.6        | 33.8                                                                                | 397.0 |
| 400.3                                                                                                                                                                                       | -     | 36.5        | -                                                                                              | -    | -           | 37.2                                                                                      | 32.8 | -           | -                                                                                             | 38.0  | 33.3        | -               | -     | 38.5        | 33.7                                                                                | 400.3 |
| 403.5                                                                                                                                                                                       | -     | 36.3        | -                                                                                              | -    | -           | 37.0                                                                                      | 32.7 | -           | -                                                                                             | 37.8  | 33.2        | -               | -     | 38.3        | 33.6                                                                                | 403.5 |
| 410.1                                                                                                                                                                                       | -     | 35.9        | -                                                                                              | -    | -           | 36.6                                                                                      | 32.5 | -           | -                                                                                             | 37.4  | 33.0        | -               | -     | 37.9        | 33.3                                                                                | 410.1 |
| 413.4                                                                                                                                                                                       | -     | -           | -                                                                                              | -    | -           | 36.4                                                                                      | 32.4 | -           | -                                                                                             | 37.3  | 32.8        | -               | -     | 37.7        | 33.1                                                                                | 413.4 |
| 416.7                                                                                                                                                                                       | -     | -           | -                                                                                              | -    | -           | 36.3                                                                                      | -    | -           | -                                                                                             | 37.1  | 32.7        | -               | -     | 37.6        | 33.0                                                                                | 416.7 |
| 426.5                                                                                                                                                                                       | -     | -           | -                                                                                              | -    | -           | 35.7                                                                                      | -    | -           | -                                                                                             | 36.5  | 32.3        | -               | -     | 37.1        | 32.8                                                                                | 426.5 |
| 429.8                                                                                                                                                                                       | -     | -           | -                                                                                              | -    | -           | -                                                                                         | -    | -           | -                                                                                             | 36.4  | 32.2        | -               | -     | 37.0        | 32.7                                                                                | 429.8 |
| 439.6                                                                                                                                                                                       | -     | -           | -                                                                                              | -    | -           | -                                                                                         | -    | -           | -                                                                                             | 35.9  | -           | -               | -     | 36.5        | 32.4                                                                                | 439.6 |
| 442.9                                                                                                                                                                                       | -     | -           | -                                                                                              | -    | -           | -                                                                                         | -    | -           | -                                                                                             | 35.7  | -           | -               | -     | 36.4        | 32.3                                                                                | 442.9 |
| 446.2                                                                                                                                                                                       | -     | -           | -                                                                                              | -    | -           | -                                                                                         | -    | -           | -                                                                                             | -     | -           | -               | -     | 36.2        | 32.2                                                                                | 446.2 |
| 452.8                                                                                                                                                                                       | -     | -           | -                                                                                              | -    | -           | -                                                                                         | -    | -           | -                                                                                             | -     | -           | -               | -     | 35.9        | -                                                                                   | 452.8 |
| 459.3                                                                                                                                                                                       | -     | -           | -                                                                                              | -    | -           | -                                                                                         | -    | -           | -                                                                                             | -     | -           | -               | -     | 35.7        | -                                                                                   | 459.3 |
| 465.9                                                                                                                                                                                       | -     | -           | -                                                                                              | -    | -           | -                                                                                         | -    | -           | -                                                                                             | -     | -           | -               | -     | -           | -                                                                                   | 465.9 |
| 479.0                                                                                                                                                                                       | -     | -           | -                                                                                              | -    | -           | -                                                                                         | -    | -           | -                                                                                             | -     | -           | -               | -     | -           | -                                                                                   | 479.0 |

 0 lb   143,300 lb   209,500 lb   275,600 lb   363,800 lb   452,000 lb   584,300 lb   716,600 lb



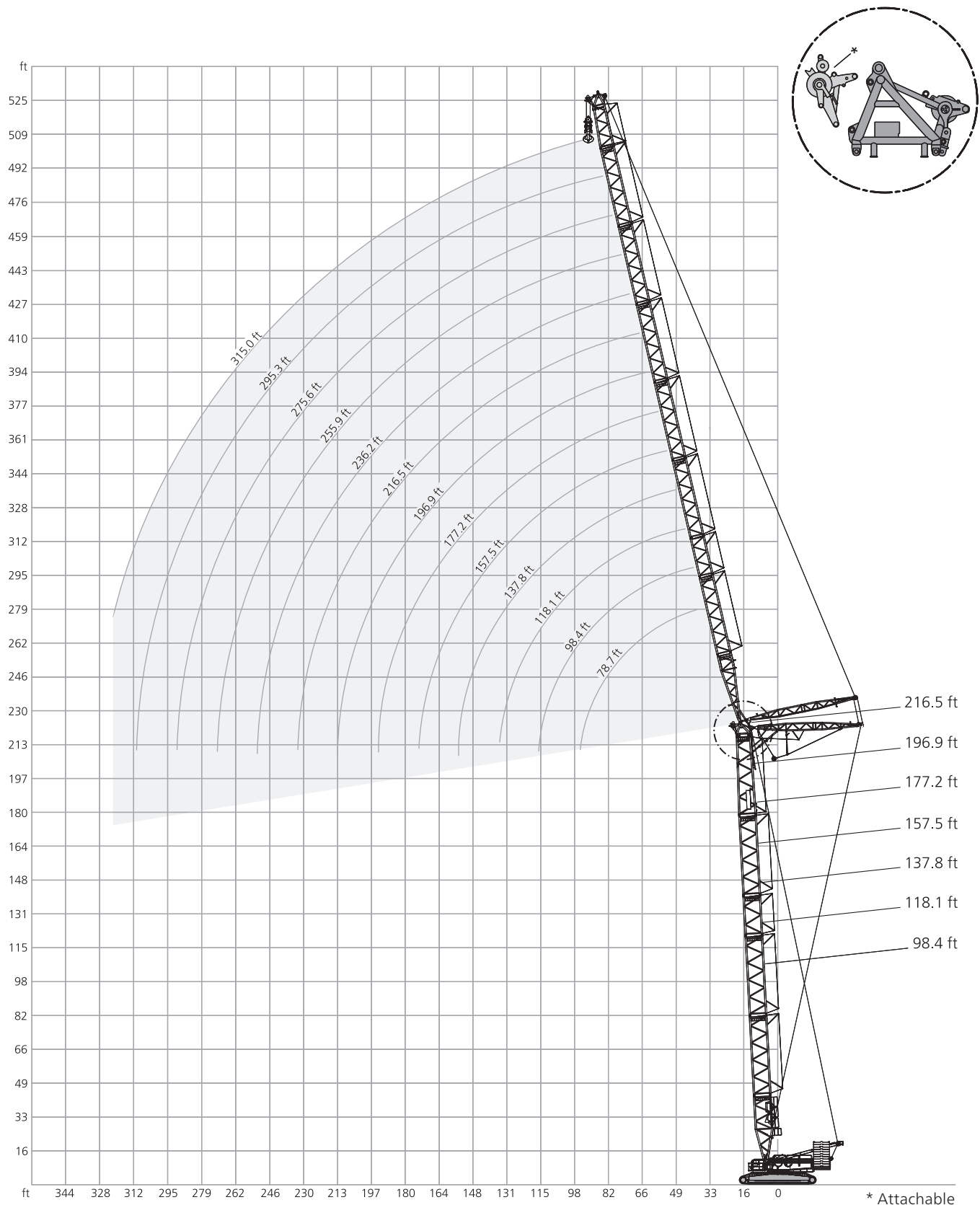
| <div><div><div><div></div></div><div>363,800 lb + <div><div></div><div></div></div>110,200 lb</div><div><div><div></div><div></div></div>36.1-62.3 ft</div><div><div><div></div><div></div></div>27.6 ft</div><div><div><div></div><div></div></div>32.2 ft/s</div><div>360°</div><div>ASME B30.5</div></div></div> |      |          |      |             |      |          |      |             |      |          |      |             |       |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|-------------|------|----------|------|-------------|------|----------|------|-------------|-------|----|
| <div><div></div><div></div></div>                                                                                                                                                                                                                                                                                   |      | 433.1 ft |      |             |      | 452.8 ft |      |             |      | 472.4 ft |      |             |       |    |
| <div><div></div><div></div></div>                                                                                                                                                                                                                                                                                   |      | LSL+LF_2 |      |             |      |          |      |             |      |          |      |             |       |    |
| <div><div></div><div></div></div>                                                                                                                                                                                                                                                                                   |      | 118.1 ft |      |             |      |          |      |             |      |          |      |             |       |    |
| <div><div></div><div></div></div>                                                                                                                                                                                                                                                                                   |      | 0 lb     |      | 0-716.6 klb |      | 0 lb     |      | 0-716.6 klb |      | 0 lb     |      | 0-716.6 klb |       |    |
| <div><div></div><div></div></div>                                                                                                                                                                                                                                                                                   |      | 15°      |      | 20°         |      | 30°      |      | 15°         |      | 20°      |      | 30°         |       |    |
| ft                                                                                                                                                                                                                                                                                                                  |      | 1,000 lb |      |             |      |          |      |             |      |          |      |             |       | ft |
| 85.3                                                                                                                                                                                                                                                                                                                | 89.3 | 93.3     | -    | -           | 80.5 | 83.6     | -    | -           | -    | -        | -    | -           | 85.3  |    |
| 88.6                                                                                                                                                                                                                                                                                                                | 89.3 | 93.1     | -    | -           | 80.5 | 83.4     | -    | -           | 71.7 | 74.3     | -    | -           | 88.6  |    |
| 91.9                                                                                                                                                                                                                                                                                                                | 89.3 | 93.0     | -    | -           | 80.5 | 83.3     | -    | -           | 71.7 | 74.1     | -    | -           | 91.9  |    |
| 95.1                                                                                                                                                                                                                                                                                                                | 89.2 | 92.6     | 76.1 | -           | 80.5 | 83.2     | 72.1 | -           | 71.5 | 73.9     | -    | -           | 95.1  |    |
| 98.4                                                                                                                                                                                                                                                                                                                | 89.1 | 92.2     | 75.2 | -           | 80.5 | 83.1     | 71.9 | -           | 71.4 | 73.6     | 64.8 | -           | 98.4  |    |
| 111.5                                                                                                                                                                                                                                                                                                               | 83.3 | 89.5     | 71.9 | 44.3        | 77.1 | 81.9     | 69.7 | -           | 70.1 | 72.6     | 64.2 | -           | 111.5 |    |
| 114.8                                                                                                                                                                                                                                                                                                               | 82.9 | 89.0     | 71.1 | 43.9        | 76.8 | 81.6     | 69.2 | 43.7        | 69.8 | 72.3     | 64.1 | 43.2        | 114.8 |    |
| 124.7                                                                                                                                                                                                                                                                                                               | 76.1 | 86.3     | 68.8 | 42.7        | 70.3 | 80.2     | 67.5 | 42.4        | 63.9 | 71.4     | 63.3 | 42.0        | 124.7 |    |
| 137.8                                                                                                                                                                                                                                                                                                               | 63.5 | 82.0     | 65.7 | 41.2        | 60.8 | 77.8     | 64.8 | 40.8        | 57.5 | 70.1     | 62.2 | 40.3        | 137.8 |    |
| 150.9                                                                                                                                                                                                                                                                                                               | 53.2 | 78.0     | 62.8 | 39.8        | 50.7 | 75.0     | 62.0 | 39.3        | 47.4 | 68.6     | 60.0 | 38.9        | 150.9 |    |
| 164.0                                                                                                                                                                                                                                                                                                               | 43.9 | 74.2     | 60.0 | 38.3        | 41.5 | 72.3     | 59.4 | 37.9        | 38.3 | 67.2     | 57.8 | 37.6        | 164.0 |    |
| 177.2                                                                                                                                                                                                                                                                                                               | 35.5 | 70.5     | 57.3 | 36.8        | 33.3 | 69.7     | 56.9 | 36.6        | 30.2 | 65.7     | 55.8 | 36.4        | 177.2 |    |
| 190.3                                                                                                                                                                                                                                                                                                               | 28.6 | 67.3     | 55.0 | 35.6        | 26.4 | 67.0     | 54.5 | 35.4        | 23.4 | 63.8     | 53.9 | 35.1        | 190.3 |    |
| 203.4                                                                                                                                                                                                                                                                                                               | 22.2 | 64.2     | 52.7 | 34.5        | 20.1 | 64.4     | 52.3 | 34.2        | 17.2 | 61.9     | 52.0 | 33.9        | 203.4 |    |
| 216.5                                                                                                                                                                                                                                                                                                               | 16.3 | 61.3     | 50.5 | 33.3        | 14.3 | 61.9     | 50.3 | 33.1        | 11.5 | 59.7     | 50.3 | 32.8        | 216.5 |    |
| 223.1                                                                                                                                                                                                                                                                                                               | 13.8 | 60.0     | 49.5 | 32.8        | 11.9 | 60.7     | 49.4 | 32.6        | 8.8  | 58.8     | 49.4 | 32.3        | 223.1 |    |
| 229.7                                                                                                                                                                                                                                                                                                               | 11.3 | 58.6     | 48.5 | 32.3        | 9.4  | 59.4     | 48.5 | 32.0        | -    | 57.8     | 48.5 | 31.8        | 229.7 |    |
| 232.9                                                                                                                                                                                                                                                                                                               | 10.1 | 58.0     | 48.1 | 32.0        | 8.2  | 58.8     | 48.1 | 31.8        | -    | 57.4     | 48.1 | 31.5        | 232.9 |    |
| 236.2                                                                                                                                                                                                                                                                                                               | 8.8  | 57.3     | 47.6 | 31.7        | -    | 58.2     | 47.6 | 31.5        | -    | 56.9     | 47.6 | 31.3        | 236.2 |    |
| 242.8                                                                                                                                                                                                                                                                                                               | -    | 56.2     | 46.8 | 31.3        | -    | 57.0     | 46.8 | 31.1        | -    | 55.9     | 46.8 | 30.9        | 242.8 |    |
| 255.9                                                                                                                                                                                                                                                                                                               | -    | 54.0     | 45.2 | 30.4        | -    | 54.7     | 45.2 | 30.2        | -    | 53.8     | 45.2 | 30.2        | 255.9 |    |
| 269.0                                                                                                                                                                                                                                                                                                               | -    | 52.2     | 43.9 | 29.5        | -    | 52.5     | 43.9 | 29.5        | -    | 51.9     | 43.6 | 29.3        | 269.0 |    |
| 282.2                                                                                                                                                                                                                                                                                                               | -    | 50.5     | 42.5 | 28.7        | -    | 50.6     | 42.5 | 28.7        | -    | 49.9     | 42.2 | 28.6        | 282.2 |    |
| 295.3                                                                                                                                                                                                                                                                                                               | -    | 48.7     | 41.2 | 28.0        | -    | 48.9     | 41.2 | 28.0        | -    | 48.1     | 41.0 | 28.0        | 295.3 |    |
| 308.4                                                                                                                                                                                                                                                                                                               | -    | 47.3     | 39.9 | 27.4        | -    | 47.4     | 40.1 | 27.5        | -    | 46.4     | 39.8 | 27.2        | 308.4 |    |
| 321.5                                                                                                                                                                                                                                                                                                               | -    | 45.8     | 38.9 | 26.9        | -    | 46.0     | 38.9 | 26.8        | -    | 44.8     | 38.8 | 26.7        | 321.5 |    |
| 334.6                                                                                                                                                                                                                                                                                                               | -    | 44.5     | 37.7 | 26.2        | -    | 44.8     | 37.9 | 26.2        | -    | 43.4     | 37.7 | 26.2        | 334.6 |    |
| 347.8                                                                                                                                                                                                                                                                                                               | -    | 43.2     | 36.8 | 25.9        | -    | 43.4     | 37.0 | 25.9        | -    | 41.9     | 36.8 | 25.6        | 347.8 |    |
| 360.9                                                                                                                                                                                                                                                                                                               | -    | 42.0     | 36.0 | 25.5        | -    | 42.3     | 36.2 | 25.4        | -    | 40.6     | 36.0 | 25.2        | 360.9 |    |
| 374.0                                                                                                                                                                                                                                                                                                               | -    | 41.0     | 35.3 | 25.1        | -    | 41.2     | 35.3 | 25.1        | -    | 39.5     | 35.3 | 24.9        | 374.0 |    |
| 387.1                                                                                                                                                                                                                                                                                                               | -    | 40.0     | 34.5 | 24.8        | -    | 40.2     | 34.7 | 24.8        | -    | 38.4     | 34.6 | 24.6        | 387.1 |    |
| 400.3                                                                                                                                                                                                                                                                                                               | -    | 39.1     | 33.9 | 24.6        | -    | 39.3     | 34.1 | 24.5        | -    | 37.3     | 33.9 | 24.3        | 400.3 |    |
| 413.4                                                                                                                                                                                                                                                                                                               | -    | 38.4     | 33.3 | 24.5        | -    | 38.6     | 33.5 | 24.3        | -    | 36.2     | 33.3 | 24.0        | 413.4 |    |
| 426.5                                                                                                                                                                                                                                                                                                               | -    | 37.6     | 32.8 | 24.3        | -    | 37.9     | 33.1 | 24.1        | -    | 35.6     | 32.8 | 23.9        | 426.5 |    |
| 433.1                                                                                                                                                                                                                                                                                                               | -    | 37.3     | 32.6 | 24.0        | -    | 37.5     | 32.8 | 24.0        | -    | 35.3     | 32.6 | 23.8        | 433.1 |    |
| 439.6                                                                                                                                                                                                                                                                                                               | -    | 37.1     | 32.6 | -           | -    | 37.2     | 32.6 | 24.0        | -    | 35.1     | 32.4 | 23.7        | 439.6 |    |
| 446.2                                                                                                                                                                                                                                                                                                               | -    | 36.9     | 32.4 | -           | -    | 36.9     | 32.4 | 23.8        | -    | 35.0     | 32.2 | 23.7        | 446.2 |    |
| 452.8                                                                                                                                                                                                                                                                                                               | -    | 36.6     | 32.2 | -           | -    | 36.6     | 32.2 | -           | -    | 34.8     | 32.0 | 23.6        | 452.8 |    |
| 462.6                                                                                                                                                                                                                                                                                                               | -    | 36.3     | 32.1 | -           | -    | 36.3     | 32.0 | -           | -    | 34.6     | 31.8 | 23.6        | 462.6 |    |
| 465.9                                                                                                                                                                                                                                                                                                               | -    | 36.2     | 32.0 | -           | -    | 36.2     | 31.9 | -           | -    | 34.5     | 31.7 | -           | 465.9 |    |
| 479.0                                                                                                                                                                                                                                                                                                               | -    | 35.8     | 31.7 | -           | -    | 35.8     | 31.7 | -           | -    | 34.3     | 31.5 | -           | 479.0 |    |
| 482.3                                                                                                                                                                                                                                                                                                               | -    | 35.7     | 31.7 | -           | -    | 35.7     | 31.6 | -           | -    | 34.3     | 31.5 | -           | 482.3 |    |
| 492.1                                                                                                                                                                                                                                                                                                               | -    | 35.5     | -    | -           | -    | 35.5     | 31.5 | -           | -    | 34.2     | 31.3 | -           | 492.1 |    |
| 495.4                                                                                                                                                                                                                                                                                                               | -    | 35.3     | -    | -           | -    | 35.5     | 31.5 | -           | -    | 34.2     | 31.3 | -           | 495.4 |    |
| 498.7                                                                                                                                                                                                                                                                                                               | -    | -        | -    | -           | -    | 35.4     | 31.5 | -           | -    | 34.2     | 31.2 | -           | 498.7 |    |
| 511.8                                                                                                                                                                                                                                                                                                               | -    | -        | -    | -           | -    | 35.3     | -    | -           | -    | 34.2     | 31.1 | -           | 511.8 |    |
| 518.4                                                                                                                                                                                                                                                                                                               | -    | -        | -    | -           | -    | -        | -    | -           | -    | 34.2     | 12.1 | -           | 518.4 |    |
| 528.2                                                                                                                                                                                                                                                                                                               | -    | -        | -    | -           | -    | -        | -    | -           | -    | 34.2     | -    | -           | 528.2 |    |

|                                                                                     |      |            |            |            |            |            |            |            |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|------------|
|  | 0 lb | 143,300 lb | 209,500 lb | 275,600 lb | 363,800 lb | 452,000 lb | 584,300 lb | 716,600 lb |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|------------|



\*\* Option





| 452,000 lb +  110,200 lb |                                                                                   |         |       |  27.6 ft |         |       |        |  32.2 ft/s |      |        |          | 360° |       | ASME B30.5 |      |     |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|-------|-------------------------------------------------------------------------------------------|---------|-------|--------|----------------------------------------------------------------------------------------------|------|--------|----------|------|-------|------------|------|-----|
|  118.1 ft                |                                                                                   |         |       |                                                                                           |         |       |        |                                                                                              |      |        |          |      |       |            |      |     |
|                          |  | 78.7 ft |       |                                                                                           | 98.4 ft |       |        | 118.1 ft                                                                                     |      |        | 137.8 ft |      |       | 157.5 ft   |      |     |
|                                                                                                           |                                                                                   | SW_1    |       |                                                                                           |         |       |        |                                                                                              |      |        |          |      |       |            |      |     |
|                                                                                                           |                                                                                   | 87°/85° | 75°   | 65°                                                                                       | 87°/85° | 75°   | 65°    | 87°/85°                                                                                      | 75°  | 65°    | 87°/85°  | 75°  | 65°   | 87°/85°    | 75°  | 65° |
| ft                                                                                                        |                                                                                   |         |       |                                                                                           |         |       |        | 1,000 lb                                                                                     |      |        |          |      |       |            |      |     |
| 36.1                                                                                                      | 597.5                                                                             | -       | -     | -                                                                                         | -       | -     | -      | -                                                                                            | -    | -      | -        | -    | -     | -          | -    |     |
| 39.4                                                                                                      | 549.0                                                                             | -       | -     | 524.7                                                                                     | -       | -     | -      | -                                                                                            | -    | -      | -        | -    | -     | -          | -    |     |
| 45.9                                                                                                      | 471.8                                                                             | -       | -     | 454.2                                                                                     | -       | -     | 434.3  | -                                                                                            | -    | -      | -        | -    | -     | -          | -    |     |
| 49.2                                                                                                      | 440.9                                                                             | -       | -     | 423.3                                                                                     | -       | -     | 407.9  | -                                                                                            | -    | 392.4  | -        | -    | -     | -          | -    |     |
| 52.5                                                                                                      | 414.5                                                                             | -       | -     | 399.0                                                                                     | -       | -     | 383.6  | -                                                                                            | -    | 370.4  | -        | -    | -     | -          | -    |     |
| 55.8                                                                                                      | 390.2                                                                             | -       | -     | 374.8                                                                                     | -       | -     | 361.6  | -                                                                                            | -    | 348.3  | -        | -    | 335.1 | -          | -    |     |
| 59.1                                                                                                      | 368.2                                                                             | -       | -     | 354.9                                                                                     | -       | -     | 341.7  | -                                                                                            | -    | 330.7  | -        | -    | 317.5 | -          | -    |     |
| 65.6                                                                                                      | 328.5                                                                             | -       | -     | 319.7                                                                                     | -       | -     | 308.6  | -                                                                                            | -    | 297.6  | -        | -    | 286.6 | -          | -    |     |
| 72.2                                                                                                      | 288.8                                                                             | -       | -     | 284.4                                                                                     | -       | -     | 280.0  | -                                                                                            | -    | 271.2  | -        | -    | 260.1 | -          | -    |     |
| 75.5                                                                                                      | 272.3                                                                             | 242.5   | -     | 269.0                                                                                     | -       | -     | 265.7  | -                                                                                            | -    | 260.1  | -        | -    | 249.1 | -          | -    |     |
| 78.7                                                                                                      | 255.7                                                                             | 229.3   | -     | 253.5                                                                                     | -       | -     | 251.3  | -                                                                                            | -    | 249.1  | -        | -    | 238.1 | -          | -    |     |
| 85.3                                                                                                      | 229.3                                                                             | 207.2   | -     | 227.1                                                                                     | 203.9   | -     | 227.1  | -                                                                                            | -    | 224.9  | -        | -    | 220.5 | -          | -    |     |
| 91.9                                                                                                      | 205.0*                                                                            | 187.4   | -     | 207.2                                                                                     | 184.1   | -     | 205.0  | 181.9                                                                                        | -    | 203.9  | -        | -    | 201.7 | -          | -    |     |
| 98.4                                                                                                      | -                                                                                 | 170.9   | -     | 188.5                                                                                     | 167.6   | -     | 187.4  | 165.3                                                                                        | -    | 186.3  | -        | -    | 184.1 | -          | -    |     |
| 101.7                                                                                                     | -                                                                                 | 164.2   | -     | 181.1                                                                                     | 161.2   | -     | 180.2  | 159.0                                                                                        | -    | 179.1  | 156.5    | -    | 176.6 | -          | -    |     |
| 108.3                                                                                                     | -                                                                                 | 151.0   | 135.6 | 166.4                                                                                     | 148.5   | -     | 165.9  | 146.3                                                                                        | -    | 164.8  | 144.0    | -    | 161.8 | 141.1      | -    |     |
| 111.5                                                                                                     | -                                                                                 | 144.4   | 131.2 | 157.6*                                                                                    | 142.2   | -     | 158.7  | 140.0                                                                                        | -    | 157.6  | 137.8    | -    | 154.3 | 134.5      | -    |     |
| 114.8                                                                                                     | -                                                                                 | 138.9   | 126.5 | -                                                                                         | 137.2   | -     | 153.2  | 135.0                                                                                        | -    | 152.1  | 132.8    | -    | 148.8 | 129.5      | -    |     |
| 118.1                                                                                                     | -                                                                                 | -       | 121.8 | -                                                                                         | 132.3   | 117.9 | 147.7  | 130.1                                                                                        | -    | 146.6  | 127.9    | -    | 143.3 | 124.6      | -    |     |
| 124.7                                                                                                     | -                                                                                 | -       | 112.4 | -                                                                                         | 122.4   | 109.6 | 136.7  | 120.2                                                                                        | -    | 135.6  | 117.9    | -    | 132.3 | 114.6      | -    |     |
| 131.2                                                                                                     | -                                                                                 | -       | 105.7 | -                                                                                         | 114.6   | 102.4 | 125.7* | 112.5                                                                                        | 99.6 | 126.8  | 110.7    | -    | 124.0 | 107.4      | -    |     |
| 134.5                                                                                                     | -                                                                                 | -       | 102.3 | -                                                                                         | -       | 98.8  | -      | 108.7                                                                                        | 96.3 | 122.4  | 107.0    | -    | 119.9 | 103.7      | -    |     |
| 137.8                                                                                                     | -                                                                                 | -       | -     | -                                                                                         | -       | 95.5  | -      | 104.9                                                                                        | 93.0 | 117.9  | 103.4    | -    | 115.7 | 100.1      | -    |     |
| 141.1                                                                                                     | -                                                                                 | -       | -     | -                                                                                         | -       | 92.7  | -      | 101.9                                                                                        | 90.2 | 114.6  | 100.3    | 88.4 | 112.3 | 97.0       | -    |     |
| 150.9                                                                                                     | -                                                                                 | -       | -     | -                                                                                         | -       | 84.4  | -      | 92.8                                                                                         | 81.8 | 103.0* | 91.1     | 80.0 | 102.1 | 87.7       | -    |     |
| 154.2                                                                                                     | -                                                                                 | -       | -     | -                                                                                         | -       | -     | -      | -                                                                                            | 79.5 | -      | 88.6     | 77.7 | 99.3  | 85.2       | 73.2 |     |
| 164.0                                                                                                     | -                                                                                 | -       | -     | -                                                                                         | -       | -     | -      | -                                                                                            | 72.8 | -      | 81.1     | 70.5 | 91.1  | 77.6       | 66.1 |     |
| 170.6                                                                                                     | -                                                                                 | -       | -     | -                                                                                         | -       | -     | -      | -                                                                                            | 68.8 | -      | 76.9     | 66.6 | 84.0* | 73.4       | 62.2 |     |
| 177.2                                                                                                     | -                                                                                 | -       | -     | -                                                                                         | -       | -     | -      | -                                                                                            | -    | -      | -        | 62.6 | -     | 69.2       | 58.2 |     |
| 190.3                                                                                                     | -                                                                                 | -       | -     | -                                                                                         | -       | -     | -      | -                                                                                            | -    | -      | -        | 56.4 | -     | 62.4       | 51.6 |     |
| 203.4                                                                                                     | -                                                                                 | -       | -     | -                                                                                         | -       | -     | -      | -                                                                                            | -    | -      | -        | -    | -     | -          | 46.1 |     |
| 210.0                                                                                                     | -                                                                                 | -       | -     | -                                                                                         | -       | -     | -      | -                                                                                            | -    | -      | -        | -    | -     | -          | 43.9 |     |

\* Main boom angle 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1

| 452,000 lb +  110,200 lb |       |          |      |  27.6 ft |         |      |  32.2 ft/s |         |      | 360°     |         | ASME B30.5 |     |
|-----------------------------------------------------------------------------------------------------------|-------|----------|------|-------------------------------------------------------------------------------------------|---------|------|----------------------------------------------------------------------------------------------|---------|------|----------|---------|------------|-----|
|  118.1 ft                |       |          |      |                                                                                           |         |      |                                                                                              |         |      |          |         |            |     |
|                          |       | 177.2 ft |      | 196.9 ft                                                                                  |         |      | 216.5 ft                                                                                     |         |      | 236.2 ft |         |            |     |
| SW_1                                                                                                      |       |          |      |                                                                                           |         |      |                                                                                              |         |      |          |         |            |     |
|                          |       | 87°/85°  | 75°  | 65°                                                                                       | 87°/85° | 75°  | 65°                                                                                          | 87°/85° | 75°  | 65°      | 87°/85° | 75°        | 65° |
| ft                                                                                                        |       |          |      | 1,000 lb                                                                                  |         |      |                                                                                              |         |      |          |         |            |     |
| 59.1                                                                                                      | 306.4 | -        | -    | -                                                                                         | -       | -    | -                                                                                            | -       | -    | -        | -       | -          | -   |
| 62.3                                                                                                      | 291.0 | -        | -    | 282.2                                                                                     | -       | -    | -                                                                                            | -       | -    | -        | -       | -          | -   |
| 65.6                                                                                                      | 277.8 | -        | -    | 266.8                                                                                     | -       | -    | -                                                                                            | -       | -    | -        | -       | -          | -   |
| 68.9                                                                                                      | 265.7 | -        | -    | 255.7                                                                                     | -       | -    | 246.9                                                                                        | -       | -    | -        | -       | -          | -   |
| 72.2                                                                                                      | 253.5 | -        | -    | 244.7                                                                                     | -       | -    | 235.9                                                                                        | -       | -    | 218.3    | -       | -          | -   |
| 78.7                                                                                                      | 231.5 | -        | -    | 222.7                                                                                     | -       | -    | 217.2                                                                                        | -       | -    | 209.4    | -       | -          | -   |
| 85.3                                                                                                      | 213.8 | -        | -    | 206.1                                                                                     | -       | -    | 200.6                                                                                        | -       | -    | 192.9    | -       | -          | -   |
| 91.9                                                                                                      | 198.4 | -        | -    | 191.8                                                                                     | -       | -    | 185.2                                                                                        | -       | -    | 178.6    | -       | -          | -   |
| 98.4                                                                                                      | 183.0 | -        | -    | 177.5                                                                                     | -       | -    | 172.0                                                                                        | -       | -    | 166.4    | -       | -          | -   |
| 111.5                                                                                                     | 154.3 | -        | -    | 152.1                                                                                     | -       | -    | 149.9                                                                                        | -       | -    | 144.4    | -       | -          | -   |
| 118.1                                                                                                     | 143.3 | 123.5    | -    | 141.1                                                                                     | -       | -    | 139.4                                                                                        | -       | -    | 135.6    | -       | -          | -   |
| 124.7                                                                                                     | 132.3 | 114.6    | -    | 130.1                                                                                     | -       | -    | 129.0                                                                                        | -       | -    | 126.8    | -       | -          | -   |
| 128.0                                                                                                     | 127.9 | 110.8    | -    | 125.9                                                                                     | 108.5   | -    | 124.6                                                                                        | -       | -    | 122.6    | -       | -          | -   |
| 134.5                                                                                                     | 119.0 | 103.2    | -    | 117.7                                                                                     | 101.0   | -    | 115.7                                                                                        | 99.0    | -    | 114.4    | -       | -          | -   |
| 137.8                                                                                                     | 114.6 | 99.4     | -    | 113.5                                                                                     | 97.2    | -    | 111.3                                                                                        | 95.5    | -    | 110.2    | -       | -          | -   |
| 144.4                                                                                                     | 108.1 | 93.1     | -    | 106.6                                                                                     | 90.8    | -    | 104.8                                                                                        | 89.3    | -    | 103.6    | 87.3    | -          | -   |
| 150.9                                                                                                     | 101.6 | 87.1     | -    | 99.6                                                                                      | 84.7    | -    | 98.3                                                                                         | 83.1    | -    | 97.0     | 81.4    | -          | -   |
| 164.0                                                                                                     | 90.2  | 76.7     | 65.0 | 88.2                                                                                      | 74.5    | -    | 86.9                                                                                         | 72.8    | -    | 85.3     | 70.8    | -          | -   |
| 173.9                                                                                                     | 83.1  | 70.4     | 59.1 | 80.9                                                                                      | 67.9    | 56.0 | 79.6                                                                                         | 66.1    | -    | 78.0     | 64.0    | -          | -   |
| 177.2                                                                                                     | 80.7  | 68.3     | 57.1 | 78.5                                                                                      | 65.7    | 54.0 | 77.2                                                                                         | 63.9    | -    | 75.6     | 61.7    | -          | -   |
| 187.0                                                                                                     | 72.5* | 62.7     | 52.0 | 72.5                                                                                      | 60.1    | 49.1 | 71.0                                                                                         | 58.0    | 46.7 | 69.5     | 56.1    | -          | -   |
| 190.3                                                                                                     | -     | 60.8     | 50.3 | 70.5                                                                                      | 58.2    | 47.4 | 69.0                                                                                         | 56.2    | 45.2 | 67.5     | 54.2    | -          | -   |
| 196.9                                                                                                     | -     | 57.8     | 47.4 | 67.1                                                                                      | 54.9    | 44.4 | 65.6                                                                                         | 53.0    | 42.1 | 63.9     | 50.9    | 39.9       | -   |
| 203.4                                                                                                     | -     | 54.7     | 44.5 | 63.7                                                                                      | 51.8    | 41.4 | 62.2                                                                                         | 49.8    | 39.5 | 60.4     | 47.6    | 37.0       | -   |
| 206.7                                                                                                     | -     | 53.1     | 43.3 | 60.4*                                                                                     | 50.4    | 40.2 | 60.7                                                                                         | 48.4    | 38.2 | 58.9     | 46.2    | 35.8       | -   |
| 210.0                                                                                                     | -     | 51.8     | 42.1 | -                                                                                         | 49.1    | 39.0 | 59.2                                                                                         | 47.0    | 36.9 | 57.3     | 44.8    | 34.5       | -   |
| 216.5                                                                                                     | -     | -        | 39.7 | -                                                                                         | 46.3    | 36.6 | 56.2                                                                                         | 44.1    | 34.4 | 54.2     | 41.9    | 32.0       | -   |
| 226.4                                                                                                     | -     | -        | 36.5 | -                                                                                         | 42.5    | 33.5 | 50.5*                                                                                        | 40.5    | 31.1 | 50.1     | 38.1    | 28.7       | -   |
| 229.7                                                                                                     | -     | -        | 35.5 | -                                                                                         | -       | 32.4 | -                                                                                            | 39.2    | 30.0 | 48.7     | 37.0    | 27.6       | -   |
| 242.8                                                                                                     | -     | -        | -    | -                                                                                         | -       | 28.7 | -                                                                                            | 35.1    | 26.2 | 42.1*    | 32.6    | 23.8       | -   |
| 246.1                                                                                                     | -     | -        | -    | -                                                                                         | -       | 27.8 | -                                                                                            | 34.2    | 25.5 | 41.0*    | 31.7    | 23.0       | -   |
| 255.9                                                                                                     | -     | -        | -    | -                                                                                         | -       | -    | -                                                                                            | -       | 23.1 | -        | 28.9    | 20.5       | -   |
| 265.7                                                                                                     | -     | -        | -    | -                                                                                         | -       | -    | -                                                                                            | -       | 20.9 | -        | 26.5    | 18.2       | -   |
| 269.0                                                                                                     | -     | -        | -    | -                                                                                         | -       | -    | -                                                                                            | -       | -    | -        | -       | 17.4       | -   |
| 282.2                                                                                                     | -     | -        | -    | -                                                                                         | -       | -    | -                                                                                            | -       | -    | -        | -       | 14.8       | -   |
| 285.4                                                                                                     | -     | -        | -    | -                                                                                         | -       | -    | -                                                                                            | -       | -    | -        | -       | 14.3       | -   |

\* Main boom angle 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1

| 452,000 lb +  110,200 lb |                                                                                   |          |      |  27.6 ft |          |      |  32.2 ft/s |          |      | 360°  |          | ASME B30.5 |     |  |  |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|------|-------------------------------------------------------------------------------------------|----------|------|----------------------------------------------------------------------------------------------|----------|------|-------|----------|------------|-----|--|--|
|  118.1 ft                |                                                                                   |          |      |                                                                                           |          |      |                                                                                              |          |      |       |          |            |     |  |  |
|                          |  | 255.9 ft |      |                                                                                           | 275.6 ft |      |                                                                                              | 295.3 ft |      |       | 315.0 ft |            |     |  |  |
|                                                                                                           |                                                                                   | SW.1     |      |                                                                                           |          |      |                                                                                              |          |      |       |          |            |     |  |  |
|                                                                                                           |                                                                                   | 87°/85°  | 75°  | 65°                                                                                       | 87°/85°  | 75°  | 65°                                                                                          | 87°/85°  | 75°  | 65°   | 87°/85°  | 75°        | 65° |  |  |
| ft                                                                                                        |                                                                                   |          |      | 1,000 lb                                                                                  |          |      |                                                                                              |          |      |       |          |            |     |  |  |
| 75.5                                                                                                      | 186.3                                                                             | -        | -    | -                                                                                         | -        | -    | -                                                                                            | -        | -    | -     | -        | -          | -   |  |  |
| 78.7                                                                                                      | 185.2                                                                             | -        | -    | -                                                                                         | -        | -    | -                                                                                            | -        | -    | -     | -        | -          | -   |  |  |
| 82.0                                                                                                      | 184.1                                                                             | -        | -    | 157.6                                                                                     | -        | -    | -                                                                                            | -        | -    | -     | -        | -          | -   |  |  |
| 85.3                                                                                                      | 183.0                                                                             | -        | -    | 156.5                                                                                     | -        | -    | 134.5                                                                                        | -        | -    | -     | -        | -          | -   |  |  |
| 88.6                                                                                                      | 178.0                                                                             | -        | -    | 155.4                                                                                     | -        | -    | 133.4                                                                                        | -        | -    | 115.7 | -        | -          | -   |  |  |
| 91.9                                                                                                      | 173.1                                                                             | -        | -    | 154.3                                                                                     | -        | -    | 132.3                                                                                        | -        | -    | 114.6 | -        | -          | -   |  |  |
| 98.4                                                                                                      | 160.9                                                                             | -        | -    | 153.2                                                                                     | -        | -    | 131.2                                                                                        | -        | -    | 113.5 | -        | -          | -   |  |  |
| 111.5                                                                                                     | 140.0                                                                             | -        | -    | 134.5                                                                                     | -        | -    | 129.0                                                                                        | -        | -    | 111.3 | -        | -          | -   |  |  |
| 124.7                                                                                                     | 122.4                                                                             | -        | -    | 117.9                                                                                     | -        | -    | 113.5                                                                                        | -        | -    | 108.7 | -        | -          | -   |  |  |
| 137.8                                                                                                     | 108.9                                                                             | -        | -    | 104.1                                                                                     | -        | -    | 100.3                                                                                        | -        | -    | 95.5  | -        | -          | -   |  |  |
| 150.9                                                                                                     | 95.5                                                                              | 79.4     | -    | 92.6                                                                                      | -        | -    | 88.8                                                                                         | -        | -    | 84.2  | -        | -          | -   |  |  |
| 160.8                                                                                                     | 86.9                                                                              | 71.6     | -    | 84.3                                                                                      | 67.9     | -    | 81.4                                                                                         | -        | -    | 77.1  | -        | -          | -   |  |  |
| 164.0                                                                                                     | 84.0                                                                              | 69.0     | -    | 81.6                                                                                      | 65.7     | -    | 78.9                                                                                         | -        | -    | 74.7  | -        | -          | -   |  |  |
| 167.3                                                                                                     | 81.6                                                                              | 66.6     | -    | 79.1                                                                                      | 63.4     | -    | 76.8                                                                                         | 60.2     | -    | 72.6  | -        | -          | -   |  |  |
| 177.2                                                                                                     | 74.3                                                                              | 60.0     | -    | 71.9                                                                                      | 56.7     | -    | 70.5                                                                                         | 54.7     | -    | 66.4  | 50.3     | -          | -   |  |  |
| 190.3                                                                                                     | 65.9                                                                              | 52.2     | -    | 63.5                                                                                      | 48.9     | -    | 62.4                                                                                         | 47.4     | -    | 59.1  | 44.1     | -          | -   |  |  |
| 203.4                                                                                                     | 58.9                                                                              | 45.6     | -    | 56.2                                                                                      | 42.3     | -    | 54.9                                                                                         | 40.8     | -    | 52.7  | 38.4     | -          | -   |  |  |
| 210.0                                                                                                     | 55.7                                                                              | 42.8     | 32.4 | 52.9                                                                                      | 39.6     | -    | 51.6                                                                                         | 37.9     | -    | 49.5  | 35.6     | -          | -   |  |  |
| 216.5                                                                                                     | 52.5                                                                              | 39.9     | 30.0 | 49.8                                                                                      | 36.8     | -    | 48.3                                                                                         | 35.1     | -    | 46.3  | 32.8     | -          | -   |  |  |
| 219.8                                                                                                     | 51.0                                                                              | 38.6     | 28.8 | 48.4                                                                                      | 35.5     | 25.4 | 46.8                                                                                         | 33.8     | -    | 44.9  | 31.6     | -          | -   |  |  |
| 229.7                                                                                                     | 47.0                                                                              | 35.1     | 25.6 | 44.1                                                                                      | 31.7     | 22.0 | 42.5                                                                                         | 30.2     | -    | 40.6  | 27.8     | -          | -   |  |  |
| 232.9                                                                                                     | 45.7                                                                              | 34.0     | 24.6 | 42.8                                                                                      | 30.6     | 21.1 | 41.3                                                                                         | 29.1     | 19.2 | 39.2  | 26.7     | -          | -   |  |  |
| 242.8                                                                                                     | 41.9                                                                              | 30.6     | 21.6 | 39.0                                                                                      | 27.3     | 18.3 | 37.5                                                                                         | 25.8     | 16.3 | 35.3  | 23.4     | 13.9       | -   |  |  |
| 255.9                                                                                                     | 37.5                                                                              | 26.7     | 18.3 | 34.6                                                                                      | 23.6     | 14.8 | 32.8                                                                                         | 21.8     | 13.0 | 30.9  | 19.4     | 10.4       | -   |  |  |
| 262.5                                                                                                     | 33.7*                                                                             | 25.0     | 16.7 | 32.6                                                                                      | 21.8     | 13.3 | 30.9                                                                                         | 20.1     | 11.5 | 28.8  | 17.7     | 8.8        | -   |  |  |
| 265.7                                                                                                     | 32.8*                                                                             | 24.2     | 15.9 | 31.6                                                                                      | 20.9     | 12.6 | 29.9                                                                                         | 19.2     | 10.7 | 27.7  | 16.9     | -          | -   |  |  |
| 269.0                                                                                                     | -                                                                                 | 23.4     | 15.2 | 30.6                                                                                      | 20.1     | 11.9 | 28.9                                                                                         | 18.3     | 9.9  | 26.7  | 16.1     | -          | -   |  |  |
| 272.3                                                                                                     | -                                                                                 | 22.6     | 14.6 | 29.8                                                                                      | 19.3     | 11.2 | 28.0                                                                                         | 17.5     | 9.3  | 25.8  | 15.3     | -          | -   |  |  |
| 282.2                                                                                                     | -                                                                                 | 20.3     | 12.6 | 25.4*                                                                                     | 17.0     | 9.0  | 25.4                                                                                         | 15.2     | -    | 23.1  | 12.8     | -          | -   |  |  |
| 285.4                                                                                                     | -                                                                                 | 19.6     | 12.0 | -                                                                                         | 16.3     | -    | 24.5                                                                                         | 14.5     | -    | 22.3  | 12.1     | -          | -   |  |  |
| 295.3                                                                                                     | -                                                                                 | -        | 10.1 | -                                                                                         | 14.3     | -    | 22.0                                                                                         | 12.3     | -    | 19.8  | 9.9      | -          | -   |  |  |
| 298.6                                                                                                     | -                                                                                 | -        | 9.6  | -                                                                                         | 13.7     | -    | 21.4                                                                                         | 11.7     | -    | 19.1  | 9.3      | -          | -   |  |  |
| 301.8                                                                                                     | -                                                                                 | -        | 9.0  | -                                                                                         | 13.2     | -    | 19.2*                                                                                        | 11.1     | -    | 18.4  | -        | -          | -   |  |  |
| 305.1                                                                                                     | -                                                                                 | -        | -    | -                                                                                         | 12.6     | -    | -                                                                                            | 10.5     | -    | 17.7  | -        | -          | -   |  |  |
| 308.4                                                                                                     | -                                                                                 | -        | -    | -                                                                                         | -        | -    | -                                                                                            | 9.9      | -    | 17.0  | -        | -          | -   |  |  |
| 311.7                                                                                                     | -                                                                                 | -        | -    | -                                                                                         | -        | -    | -                                                                                            | 9.3      | -    | 16.2  | -        | -          | -   |  |  |
| 321.5                                                                                                     | -                                                                                 | -        | -    | -                                                                                         | -        | -    | -                                                                                            | -        | -    | 12.8* | -        | -          | -   |  |  |

\* Main boom angle 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1



| <div><div><div></div></div>452,000 lb + <div><div><div></div></div><div><div></div></div>110,200 lb</div></div> <div><div><div></div></div>27.6 ft</div> <div><div><div></div></div>32.2 ft/s</div> <div>360°</div> <div>ASME B30.5</div> |                                   |           |       |        |           |      |          |           |      |        |           |      |       |           |      |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------|-------|--------|-----------|------|----------|-----------|------|--------|-----------|------|-------|-----------|------|-----|
| <div><div><div></div></div>137.8 ft</div>                                                                                                                                                                                                 |                                   |           |       |        |           |      |          |           |      |        |           |      |       |           |      |     |
| <div><div><div></div></div></div>                                                                                                                                                                                                         | <div><div><div></div></div></div> | 78.7 ft   |       |        | 98.4 ft   |      |          | 118.1 ft  |      |        | 137.8 ft  |      |       | 157.5 ft  |      |     |
|                                                                                                                                                                                                                                           |                                   | SW_1      |       |        |           |      |          |           |      |        |           |      |       |           |      |     |
|                                                                                                                                                                                                                                           |                                   | [87°/85°] | 75°   | 65°    | [87°/85°] | 75°  | 65°      | [87°/85°] | 75°  | 65°    | [87°/85°] | 75°  | 65°   | [87°/85°] | 75°  | 65° |
| ft                                                                                                                                                                                                                                        |                                   |           |       |        |           |      | 1,000 lb |           |      |        |           |      |       |           |      |     |
| 39.4                                                                                                                                                                                                                                      | 524.7                             | -         | -     | -      | -         | -    | -        | -         | -    | -      | -         | -    | -     | -         | -    |     |
| 42.7                                                                                                                                                                                                                                      | 485.0                             | -         | -     | 465.2  | -         | -    | -        | -         | -    | -      | -         | -    | -     | -         | -    |     |
| 45.9                                                                                                                                                                                                                                      | 451.9                             | -         | -     | 434.3  | -         | -    | 416.7    | -         | -    | -      | -         | -    | -     | -         | -    |     |
| 49.2                                                                                                                                                                                                                                      | 423.3                             | -         | -     | 407.9  | -         | -    | 390.2    | -         | -    | 377.0  | -         | -    | -     | -         | -    |     |
| 52.5                                                                                                                                                                                                                                      | 399.0                             | -         | -     | 383.6  | -         | -    | 368.2    | -         | -    | 354.9  | -         | -    | -     | -         | -    |     |
| 55.8                                                                                                                                                                                                                                      | 374.8                             | -         | -     | 361.6  | -         | -    | 348.3    | -         | -    | 335.1  | -         | -    | 321.9 | -         | -    |     |
| 59.1                                                                                                                                                                                                                                      | 354.9                             | -         | -     | 341.7  | -         | -    | 328.5    | -         | -    | 319.7  | -         | -    | 306.4 | -         | -    |     |
| 65.6                                                                                                                                                                                                                                      | 319.7                             | -         | -     | 308.6  | -         | -    | 297.6    | -         | -    | 288.8  | -         | -    | 277.8 | -         | -    |     |
| 72.2                                                                                                                                                                                                                                      | 286.6                             | -         | -     | 282.2  | -         | -    | 271.2    | -         | -    | 262.4  | -         | -    | 251.3 | -         | -    |     |
| 78.7                                                                                                                                                                                                                                      | 253.5                             | -         | -     | 251.3  | -         | -    | 249.1    | -         | -    | 240.3  | -         | -    | 231.5 | -         | -    |     |
| 82.0                                                                                                                                                                                                                                      | 241.4                             | 211.6     | -     | 239.2  | -         | -    | 237.0    | -         | -    | 231.5  | -         | -    | 222.7 | -         | -    |     |
| 85.3                                                                                                                                                                                                                                      | 229.3                             | 200.6     | -     | 227.1  | -         | -    | 224.9    | -         | -    | 222.7  | -         | -    | 213.8 | -         | -    |     |
| 91.9                                                                                                                                                                                                                                      | 203.9*                            | 181.9     | -     | 205.0  | 178.6     | -    | 203.9    | -         | -    | 202.8  | -         | -    | 198.4 | -         | -    |     |
| 95.1                                                                                                                                                                                                                                      | 194.0*                            | 173.6     | -     | 196.2  | 170.3     | -    | 195.1    | -         | -    | 194.0  | -         | -    | 190.7 | -         | -    |     |
| 98.4                                                                                                                                                                                                                                      | -                                 | 165.3     | -     | 187.4  | 162.0     | -    | 186.3    | 159.8     | -    | 185.2  | -         | -    | 183.0 | -         | -    |     |
| 108.3                                                                                                                                                                                                                                     | -                                 | 146.3     | -     | 165.3  | 143.0     | -    | 164.8    | 140.8     | -    | 163.7  | 138.9     | -    | 160.7 | -         | -    |     |
| 111.5                                                                                                                                                                                                                                     | -                                 | 140.0     | -     | 155.4* | 136.7     | -    | 157.6    | 134.5     | -    | 156.5  | 133.4     | -    | 153.2 | -         | -    |     |
| 114.8                                                                                                                                                                                                                                     | -                                 | 135.0     | -     | 149.9* | 132.0     | -    | 152.1    | 129.8     | -    | 151.0  | 128.4     | -    | 148.0 | 124.6     | -    |     |
| 118.1                                                                                                                                                                                                                                     | -                                 | 130.1     | 113.5 | -      | 127.3     | -    | 146.6    | 125.1     | -    | 145.5  | 123.5     | -    | 142.7 | 119.8     | -    |     |
| 124.7                                                                                                                                                                                                                                     | -                                 | -         | 106.0 | -      | 117.9     | -    | 135.6    | 115.7     | -    | 134.5  | 113.5     | -    | 132.3 | 110.2     | -    |     |
| 128.0                                                                                                                                                                                                                                     | -                                 | -         | 102.7 | -      | 114.3     | 98.8 | 131.2    | 112.0     | -    | 130.3  | 110.0     | -    | 127.9 | 106.6     | -    |     |
| 131.2                                                                                                                                                                                                                                     | -                                 | -         | 99.3  | -      | 110.6     | 95.5 | 123.5*   | 108.2     | -    | 126.2  | 106.5     | -    | 123.5 | 103.1     | -    |     |
| 137.8                                                                                                                                                                                                                                     | -                                 | -         | 92.6  | -      | 103.2     | 89.1 | -        | 100.8     | 86.2 | 117.9  | 99.4      | -    | 114.6 | 95.9      | -    |     |
| 141.1                                                                                                                                                                                                                                     | -                                 | -         | 89.7  | -      | -         | 86.3 | -        | 97.8      | 83.4 | 114.5  | 96.4      | -    | 111.3 | 92.9      | -    |     |
| 150.9                                                                                                                                                                                                                                     | -                                 | -         | -     | -      | -         | 78.0 | -        | 88.8      | 75.2 | 101.6* | 87.3      | 73.2 | 101.2 | 83.8      | -    |     |
| 157.5                                                                                                                                                                                                                                     | -                                 | -         | -     | -      | -         | 73.6 | -        | 84.0      | 70.7 | -      | 82.5      | 68.6 | 95.7  | 78.9      | -    |     |
| 160.8                                                                                                                                                                                                                                     | -                                 | -         | -     | -      | -         | 71.4 | -        | -         | 68.4 | -      | 80.0      | 66.2 | 92.9  | 76.5      | 61.7 |     |
| 164.0                                                                                                                                                                                                                                     | -                                 | -         | -     | -      | -         | -    | -        | -         | 66.1 | -      | 77.6      | 63.9 | 90.2  | 74.1      | 59.5 |     |
| 170.6                                                                                                                                                                                                                                     | -                                 | -         | -     | -      | -         | -    | -        | -         | 62.5 | -      | 73.6      | 60.2 | 82.7* | 69.9      | 55.8 |     |
| 177.2                                                                                                                                                                                                                                     | -                                 | -         | -     | -      | -         | -    | -        | -         | 58.9 | -      | 69.7      | 56.4 | -     | 65.7      | 52.0 |     |
| 180.4                                                                                                                                                                                                                                     | -                                 | -         | -     | -      | -         | -    | -        | -         | 57.3 | -      | -         | 55.0 | -     | 63.9      | 50.4 |     |
| 190.3                                                                                                                                                                                                                                     | -                                 | -         | -     | -      | -         | -    | -        | -         | -    | -      | -         | 50.5 | -     | 58.6      | 45.6 |     |
| 193.6                                                                                                                                                                                                                                     | -                                 | -         | -     | -      | -         | -    | -        | -         | -    | -      | -         | 49.2 | -     | 57.1      | 44.3 |     |
| 200.1                                                                                                                                                                                                                                     | -                                 | -         | -     | -      | -         | -    | -        | -         | -    | -      | -         | 46.7 | -     | -         | 41.7 |     |
| 203.4                                                                                                                                                                                                                                     | -                                 | -         | -     | -      | -         | -    | -        | -         | -    | -      | -         | -    | -     | -         | 40.6 |     |
| 216.5                                                                                                                                                                                                                                     | -                                 | -         | -     | -      | -         | -    | -        | -         | -    | -      | -         | -    | -     | -         | 36.2 |     |

\* Main boom angle 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  452,000 lb +  110,200 lb |                                                                                   |          |      |  27.6 ft |          |      |  32.2 ft/s |          |      | 360°  |          | ASME B30.5 |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|------|-------------------------------------------------------------------------------------------|----------|------|---------------------------------------------------------------------------------------------|----------|------|-------|----------|------------|-----|
|  137.8 ft                                                                                                  |                                                                                   |          |      |                                                                                           |          |      |                                                                                             |          |      |       |          |            |     |
|                                                                                                            |  | 177.2 ft |      |                                                                                           | 196.9 ft |      |                                                                                             | 216.5 ft |      |       | 236.2 ft |            |     |
|                                                                                                                                                                                             |                                                                                   | SW_1     |      |                                                                                           |          |      |                                                                                             |          |      |       |          |            |     |
|                                                                                                                                                                                             |                                                                                   | 87°/85°  | 75°  | 65°                                                                                       | 87°/85°  | 75°  | 65°                                                                                         | 87°/85°  | 75°  | 65°   | 87°/85°  | 75°        | 65° |
| ft                                                                                                                                                                                          |                                                                                   | 1,000 lb |      |                                                                                           |          |      |                                                                                             |          |      |       |          |            |     |
| 59.1                                                                                                                                                                                        | 295.4                                                                             | -        | -    | -                                                                                         | -        | -    | -                                                                                           | -        | -    | -     | -        | -          |     |
| 65.6                                                                                                                                                                                        | 266.8                                                                             | -        | -    | 257.9                                                                                     | -        | -    | -                                                                                           | -        | -    | -     | -        | -          |     |
| 68.9                                                                                                                                                                                        | 255.7                                                                             | -        | -    | 246.9                                                                                     | -        | -    | 238.1                                                                                       | -        | -    | -     | -        | -          |     |
| 72.2                                                                                                                                                                                        | 244.7                                                                             | -        | -    | 235.9                                                                                     | -        | -    | 229.3                                                                                       | -        | -    | 209.4 | -        | -          |     |
| 78.7                                                                                                                                                                                        | 224.9                                                                             | -        | -    | 217.2                                                                                     | -        | -    | 210.5                                                                                       | -        | -    | 202.8 | -        | -          |     |
| 85.3                                                                                                                                                                                        | 207.2                                                                             | -        | -    | 200.6                                                                                     | -        | -    | 194.0                                                                                       | -        | -    | 187.4 | -        | -          |     |
| 91.9                                                                                                                                                                                        | 191.8                                                                             | -        | -    | 185.2                                                                                     | -        | -    | 179.7                                                                                       | -        | -    | 173.1 | -        | -          |     |
| 98.4                                                                                                                                                                                        | 178.6                                                                             | -        | -    | 172.0                                                                                     | -        | -    | 167.6                                                                                       | -        | -    | 160.9 | -        | -          |     |
| 111.5                                                                                                                                                                                       | 153.2                                                                             | -        | -    | 151.0                                                                                     | -        | -    | 145.5                                                                                       | -        | -    | 140.0 | -        | -          |     |
| 124.7                                                                                                                                                                                       | 131.2                                                                             | 110.2    | -    | 130.1                                                                                     | -        | -    | 129.0                                                                                       | -        | -    | 123.5 | -        | -          |     |
| 131.2                                                                                                                                                                                       | 122.9                                                                             | 102.7    | -    | 121.3                                                                                     | 100.1    | -    | 120.2                                                                                       | -        | -    | 116.7 | -        | -          |     |
| 137.8                                                                                                                                                                                       | 114.6                                                                             | 95.5     | -    | 112.4                                                                                     | 93.0     | -    | 111.3                                                                                       | -        | -    | 110.0 | -        | -          |     |
| 141.1                                                                                                                                                                                       | 111.2                                                                             | 92.4     | -    | 109.1                                                                                     | 90.0     | -    | 107.9                                                                                       | 88.2     | -    | 106.6 | -        | -          |     |
| 147.6                                                                                                                                                                                       | 104.2                                                                             | 86.4     | -    | 102.3                                                                                     | 83.9     | -    | 101.1                                                                                       | 82.3     | -    | 99.8  | 79.6     | -          |     |
| 150.9                                                                                                                                                                                       | 100.8                                                                             | 83.3     | -    | 99.0                                                                                      | 80.9     | -    | 97.7                                                                                        | 79.4     | -    | 96.3  | 77.2     | -          |     |
| 164.0                                                                                                                                                                                       | 89.5                                                                              | 73.4     | -    | 87.5                                                                                      | 70.8     | -    | 86.2                                                                                        | 68.8     | -    | 84.9  | 66.8     | -          |     |
| 173.9                                                                                                                                                                                       | 82.4                                                                              | 67.0     | 52.9 | 80.2                                                                                      | 64.2     | -    | 78.9                                                                                        | 62.2     | -    | 77.5  | 60.2     | -          |     |
| 177.2                                                                                                                                                                                       | 80.0                                                                              | 64.8     | 51.1 | 77.8                                                                                      | 61.9     | -    | 76.5                                                                                        | 60.2     | -    | 75.2  | 58.0     | -          |     |
| 183.7                                                                                                                                                                                       | 75.8                                                                              | 61.2     | 48.0 | 73.9                                                                                      | 58.3     | 44.8 | 72.3                                                                                        | 56.4     | -    | 71.1  | 54.3     | -          |     |
| 190.3                                                                                                                                                                                       | 69.7*                                                                             | 57.5     | 44.8 | 69.9                                                                                      | 54.7     | 41.7 | 68.3                                                                                        | 52.7     | -    | 67.0  | 50.7     | -          |     |
| 193.6                                                                                                                                                                                       | -                                                                                 | 55.9     | 43.2 | 68.2                                                                                      | 53.1     | 40.3 | 66.6                                                                                        | 51.1     | 37.9 | 65.3  | 49.1     | -          |     |
| 203.4                                                                                                                                                                                       | -                                                                                 | 51.1     | 39.2 | 63.1                                                                                      | 48.5     | 36.2 | 61.5                                                                                        | 46.5     | 34.0 | 60.0  | 44.3     | -          |     |
| 206.7                                                                                                                                                                                       | -                                                                                 | 49.9     | 38.1 | 59.4*                                                                                     | 47.1     | 35.0 | 60.0                                                                                        | 45.1     | 32.8 | 58.4  | 42.9     | 30.4       |     |
| 210.0                                                                                                                                                                                       | -                                                                                 | 48.6     | 36.9 | 58.0*                                                                                     | 45.7     | 33.8 | 58.5                                                                                        | 43.8     | 31.6 | 56.9  | 41.5     | 29.2       |     |
| 213.3                                                                                                                                                                                       | -                                                                                 | 47.4     | 35.8 | -                                                                                         | 44.4     | 32.7 | 57.0                                                                                        | 42.4     | 30.5 | 55.3  | 40.1     | 28.1       |     |
| 216.5                                                                                                                                                                                       | -                                                                                 | -        | 34.6 | -                                                                                         | 43.0     | 31.5 | 55.6                                                                                        | 41.0     | 29.3 | 53.8  | 38.8     | 26.9       |     |
| 226.4                                                                                                                                                                                       | -                                                                                 | -        | 31.6 | -                                                                                         | 39.7     | 28.5 | 49.4*                                                                                       | 37.5     | 26.2 | 49.7  | 35.2     | 23.9       |     |
| 229.7                                                                                                                                                                                       | -                                                                                 | -        | 30.6 | -                                                                                         | 38.6     | 27.6 | -                                                                                           | 36.4     | 25.4 | 48.3  | 34.0     | 22.9       |     |
| 232.9                                                                                                                                                                                       | -                                                                                 | -        | 29.8 | -                                                                                         | 37.5     | 26.7 | -                                                                                           | 35.3     | 24.5 | 47.1  | 32.9     | 22.0       |     |
| 236.2                                                                                                                                                                                       | -                                                                                 | -        | 28.9 | -                                                                                         | -        | 25.8 | -                                                                                           | 34.3     | 23.6 | 45.9  | 31.9     | 21.1       |     |
| 242.8                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | -        | 24.0 | -                                                                                           | 32.2     | 21.8 | 43.4  | 29.8     | 19.2       |     |
| 246.1                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | -        | 23.3 | -                                                                                           | 31.3     | 21.1 | 39.9* | 28.9     | 18.4       |     |
| 252.6                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | -        | 21.9 | -                                                                                           | 29.5     | 19.5 | -     | 27.1     | 16.9       |     |
| 255.9                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | -        | 21.2 | -                                                                                           | -        | 18.7 | -     | 26.2     | 16.1       |     |
| 269.0                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | -        | -    | -                                                                                           | -        | 16.1 | -     | 22.9     | 13.2       |     |
| 272.3                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | -        | -    | -                                                                                           | -        | 15.4 | -     | 22.3     | 12.6       |     |
| 275.6                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | -        | -    | -                                                                                           | -        | 15.0 | -     | -        | 12.0       |     |
| 282.2                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | -        | -    | -                                                                                           | -        | -    | -     | -        | 10.8       |     |
| 292.0                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | -        | -    | -                                                                                           | -        | -    | -     | -        | 9.3        |     |

\* Main boom angle 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  452,000 lb +  110,200 lb |                                                                                   |                                                                                   |         |  27.6 ft |          |         |  32.2 ft/s |          |         | 360° |          | ASME B30.5 |     |     |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------|----------|---------|---------------------------------------------------------------------------------------------|----------|---------|------|----------|------------|-----|-----|--|
|  137.8 ft                                                                                                  |                                                                                   |                                                                                   |         |                                                                                           |          |         |                                                                                             |          |         |      |          |            |     |     |  |
|                                                                                                            |  | 255.9 ft                                                                          |         |                                                                                           | 275.6 ft |         |                                                                                             | 295.3 ft |         |      | 315.0 ft |            |     |     |  |
|                                                                                                                                                                                             |                                                                                   | SW 1                                                                              |         |                                                                                           |          |         |                                                                                             |          |         |      |          |            |     |     |  |
|                                                                                                                                                                                             |                                                                                   |  | 87°/85° | 75°                                                                                       | 65°      | 87°/85° | 75°                                                                                         | 65°      | 87°/85° | 75°  | 65°      | 87°/85°    | 75° | 65° |  |
| ft                                                                                                                                                                                          |                                                                                   |                                                                                   |         | 1,000 lb                                                                                  |          |         |                                                                                             |          |         |      |          |            |     |     |  |
| 78.7                                                                                                                                                                                        | 177.5                                                                             | -                                                                                 | -       | -                                                                                         | -        | -       | -                                                                                           | -        | -       | -    | -        | -          | -   |     |  |
| 82.0                                                                                                                                                                                        | 176.4                                                                             | -                                                                                 | -       | 151.0                                                                                     | -        | -       | -                                                                                           | -        | -       | -    | -        | -          | -   |     |  |
| 85.3                                                                                                                                                                                        | 175.3                                                                             | -                                                                                 | -       | 149.9                                                                                     | -        | -       | 129.0                                                                                       | -        | -       | -    | -        | -          | -   |     |  |
| 91.9                                                                                                                                                                                        | 167.6                                                                             | -                                                                                 | -       | 148.8                                                                                     | -        | -       | 127.9                                                                                       | -        | -       | -    | 110.2    | -          | -   |     |  |
| 98.4                                                                                                                                                                                        | 155.4                                                                             | -                                                                                 | -       | 146.6                                                                                     | -        | -       | 125.7                                                                                       | -        | -       | -    | 109.6    | -          | -   |     |  |
| 111.5                                                                                                                                                                                       | 135.6                                                                             | -                                                                                 | -       | 130.1                                                                                     | -        | -       | 123.5                                                                                       | -        | -       | -    | 107.4    | -          | -   |     |  |
| 124.7                                                                                                                                                                                       | 119.0                                                                             | -                                                                                 | -       | 113.5                                                                                     | -        | -       | 110.0                                                                                       | -        | -       | -    | 104.9    | -          | -   |     |  |
| 137.8                                                                                                                                                                                       | 105.6                                                                             | -                                                                                 | -       | 100.8                                                                                     | -        | -       | 96.8                                                                                        | -        | -       | -    | 92.2     | -          | -   |     |  |
| 150.9                                                                                                                                                                                       | 94.1                                                                              | -                                                                                 | -       | 89.5                                                                                      | -        | -       | 85.8                                                                                        | -        | -       | -    | 81.4     | -          | -   |     |  |
| 157.5                                                                                                                                                                                       | 88.8                                                                              | 68.6                                                                              | -       | 84.7                                                                                      | -        | -       | 81.0                                                                                        | -        | -       | -    | 76.7     | -          | -   |     |  |
| 164.0                                                                                                                                                                                       | 83.3                                                                              | 64.6                                                                              | -       | 79.8                                                                                      | 60.0     | -       | 76.3                                                                                        | -        | -       | -    | 72.1     | -          | -   |     |  |
| 173.9                                                                                                                                                                                       | 76.1                                                                              | 58.3                                                                              | -       | 73.4                                                                                      | 54.5     | -       | 70.2                                                                                        | 50.9     | -       | -    | 66.0     | -          | -   |     |  |
| 177.2                                                                                                                                                                                       | 73.6                                                                              | 56.2                                                                              | -       | 71.2                                                                                      | 52.7     | -       | 68.1                                                                                        | 49.4     | -       | -    | 63.9     | -          | -   |     |  |
| 180.4                                                                                                                                                                                       | 71.6                                                                              | 54.3                                                                              | -       | 69.2                                                                                      | 50.9     | -       | 66.3                                                                                        | 47.8     | -       | -    | 62.2     | 43.2       | -   |     |  |
| 190.3                                                                                                                                                                                       | 65.5                                                                              | 48.7                                                                              | -       | 63.1                                                                                      | 45.4     | -       | 60.8                                                                                        | 43.2     | -       | -    | 56.9     | 38.8       | -   |     |  |
| 203.4                                                                                                                                                                                       | 58.4                                                                              | 42.3                                                                              | -       | 55.8                                                                                      | 39.0     | -       | 54.2                                                                                        | 37.5     | -       | -    | 50.5     | 33.5       | -   |     |  |
| 216.5                                                                                                                                                                                       | 52.0                                                                              | 36.8                                                                              | 24.7    | 49.2                                                                                      | 33.5     | -       | 47.8                                                                                        | 32.0     | -       | -    | 45.0     | 28.9       | -   |     |  |
| 229.7                                                                                                                                                                                       | 46.3                                                                              | 32.0                                                                              | 20.7    | 43.4                                                                                      | 28.9     | 17.2    | 42.1                                                                                        | 27.1     | -       | -    | 39.9     | 24.7       | -   |     |  |
| 239.5                                                                                                                                                                                       | 42.7                                                                              | 28.8                                                                              | 18.1    | 39.6                                                                                      | 25.6     | 14.6    | 38.3                                                                                        | 24.0     | 12.6    | -    | 36.1     | 21.6       | -   |     |  |
| 242.8                                                                                                                                                                                       | 41.4                                                                              | 27.8                                                                              | 17.2    | 38.4                                                                                      | 24.5     | 13.7    | 37.0                                                                                        | 22.9     | 11.7    | -    | 34.8     | 20.5       | -   |     |  |
| 252.6                                                                                                                                                                                       | 38.1                                                                              | 25.0                                                                              | 14.7    | 35.1                                                                                      | 21.8     | 11.2    | 33.6                                                                                        | 20.1     | 9.3     | -    | 31.5     | 17.7       | -   |     |  |
| 255.9                                                                                                                                                                                       | 37.0                                                                              | 24.0                                                                              | 13.9    | 34.0                                                                                      | 20.9     | 10.4    | 32.4                                                                                        | 19.2     | -       | -    | 30.4     | 16.8       | -   |     |  |
| 262.5                                                                                                                                                                                       | 35.1                                                                              | 22.4                                                                              | 12.5    | 32.1                                                                                      | 19.2     | 9.0     | 30.4                                                                                        | 17.5     | -       | -    | 28.3     | 15.1       | -   |     |  |
| 265.7                                                                                                                                                                                       | 32.0*                                                                             | 21.6                                                                              | 11.7    | 31.1                                                                                      | 18.3     | -       | 29.4                                                                                        | 16.7     | -       | -    | 27.3     | 14.3       | -   |     |  |
| 269.0                                                                                                                                                                                       | -                                                                                 | 20.7                                                                              | 11.0    | 30.2                                                                                      | 17.4     | -       | 28.4                                                                                        | 15.9     | -       | -    | 26.2     | 13.4       | -   |     |  |
| 278.9                                                                                                                                                                                       | -                                                                                 | 18.6                                                                              | 9.0     | 27.6                                                                                      | 15.2     | -       | 25.8                                                                                        | 13.6     | -       | -    | 23.6     | 11.1       | -   |     |  |
| 282.2                                                                                                                                                                                       | -                                                                                 | 17.9                                                                              | -       | 24.7*                                                                                     | 14.6     | -       | 24.9                                                                                        | 12.8     | -       | -    | 22.7     | 10.4       | -   |     |  |
| 285.4                                                                                                                                                                                       | -                                                                                 | 17.2                                                                              | -       | 23.8*                                                                                     | 13.9     | -       | 24.1                                                                                        | 12.1     | -       | -    | 21.9     | 9.7        | -   |     |  |
| 288.7                                                                                                                                                                                       | -                                                                                 | 16.5                                                                              | -       | -                                                                                         | 13.2     | -       | 23.3                                                                                        | 11.5     | -       | -    | 21.1     | 9.0        | -   |     |  |
| 295.3                                                                                                                                                                                       | -                                                                                 | -                                                                                 | -       | -                                                                                         | 11.9     | -       | 21.6                                                                                        | 10.1     | -       | -    | 19.4     | -          | -   |     |  |
| 301.8                                                                                                                                                                                       | -                                                                                 | -                                                                                 | -       | -                                                                                         | 10.8     | -       | 18.3*                                                                                       | 8.8      | -       | -    | 18.0     | -          | -   |     |  |
| 305.1                                                                                                                                                                                       | -                                                                                 | -                                                                                 | -       | -                                                                                         | 10.3     | -       | 17.6*                                                                                       | -        | -       | -    | 17.3     | -          | -   |     |  |
| 308.4                                                                                                                                                                                       | -                                                                                 | -                                                                                 | -       | -                                                                                         | 9.7      | -       | -                                                                                           | -        | -       | -    | 16.5     | -          | -   |     |  |
| 321.5                                                                                                                                                                                       | -                                                                                 | -                                                                                 | -       | -                                                                                         | -        | -       | -                                                                                           | -        | -       | -    | 11.9*    | -          | -   |     |  |

\* Main boom angle 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  452,000 lb +  110,200 lb |                                                                                   |                                                                                           |      |  27.6 ft |                                                                                           |          |      |  32.2 ft/s |       |      |                                                                                              | 360°  |      | ASME B30.5                                                                                   |       |      |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------|------|---------------------------------------------------------------------------------------------|-------|------|----------------------------------------------------------------------------------------------|-------|------|----------------------------------------------------------------------------------------------|-------|------|--|
|  157.5 ft                                                                                                  |                                                                                   |                                                                                           |      |                                                                                           |                                                                                           |          |      |                                                                                             |       |      |                                                                                              |       |      |                                                                                              |       |      |  |
|                                                                                                            |  |  78.7 ft |      |                                                                                           |  98.4 ft |          |      |  118.1 ft  |       |      |  137.8 ft |       |      |  157.5 ft |       |      |  |
|                                                                                                                                                                                             |                                                                                   | SW_1                                                                                      |      |                                                                                           |                                                                                           |          |      |                                                                                             |       |      |                                                                                              |       |      |                                                                                              |       |      |  |
|                                                                                                                                                                                             |                                                                                   |  87°/85° | 75°  | 65°                                                                                       |  87°/85° | 75°      | 65°  |  87°/85°   | 75°   | 65°  |  87°/85°  | 75°   | 65°  |  87°/85°  | 75°   | 65°  |  |
| ft                                                                                                                                                                                          |                                                                                   |                                                                                           |      |                                                                                           |                                                                                           | 1,000 lb |      |                                                                                             |       |      |                                                                                              |       |      |                                                                                              |       |      |  |
| 39.4                                                                                                                                                                                        | 498.2                                                                             | -                                                                                         | -    | -                                                                                         | -                                                                                         | -        | -    | -                                                                                           | -     | -    | -                                                                                            | -     | -    | -                                                                                            | -     | -    |  |
| 42.7                                                                                                                                                                                        | 463.0                                                                             | -                                                                                         | -    | -                                                                                         | 445.3                                                                                     | -        | -    | -                                                                                           | -     | -    | -                                                                                            | -     | -    | -                                                                                            | -     | -    |  |
| 45.9                                                                                                                                                                                        | 434.3                                                                             | -                                                                                         | -    | -                                                                                         | 416.7                                                                                     | -        | -    | 399.0                                                                                       | -     | -    | -                                                                                            | -     | -    | -                                                                                            | -     | -    |  |
| 52.5                                                                                                                                                                                        | 381.4                                                                             | -                                                                                         | -    | -                                                                                         | 368.2                                                                                     | -        | -    | 354.9                                                                                       | -     | -    | 341.7                                                                                        | -     | -    | -                                                                                            | -     | -    |  |
| 55.8                                                                                                                                                                                        | 361.6                                                                             | -                                                                                         | -    | -                                                                                         | 348.3                                                                                     | -        | -    | 335.1                                                                                       | -     | -    | 324.1                                                                                        | -     | -    | 310.9                                                                                        | -     | -    |  |
| 59.1                                                                                                                                                                                        | 341.7                                                                             | -                                                                                         | -    | -                                                                                         | 328.5                                                                                     | -        | -    | 317.5                                                                                       | -     | -    | 306.4                                                                                        | -     | -    | 295.4                                                                                        | -     | -    |  |
| 65.6                                                                                                                                                                                        | 308.6                                                                             | -                                                                                         | -    | -                                                                                         | 297.6                                                                                     | -        | -    | 286.6                                                                                       | -     | -    | 277.8                                                                                        | -     | -    | 266.8                                                                                        | -     | -    |  |
| 72.2                                                                                                                                                                                        | 282.2                                                                             | -                                                                                         | -    | -                                                                                         | 271.2                                                                                     | -        | -    | 262.4                                                                                       | -     | -    | 253.5                                                                                        | -     | -    | 244.7                                                                                        | -     | -    |  |
| 78.7                                                                                                                                                                                        | 253.5                                                                             | -                                                                                         | -    | -                                                                                         | 249.1                                                                                     | -        | -    | 240.3                                                                                       | -     | -    | 233.7                                                                                        | -     | -    | 224.9                                                                                        | -     | -    |  |
| 85.3                                                                                                                                                                                        | 227.1                                                                             | -                                                                                         | -    | -                                                                                         | 224.9                                                                                     | -        | -    | 222.7                                                                                       | -     | -    | 216.1                                                                                        | -     | -    | 207.2                                                                                        | -     | -    |  |
| 88.6                                                                                                                                                                                        | 216.6                                                                             | 184.1                                                                                     | -    | -                                                                                         | 214.4                                                                                     | -        | -    | 212.7                                                                                       | -     | -    | 208.3                                                                                        | -     | -    | 199.5                                                                                        | -     | -    |  |
| 91.9                                                                                                                                                                                        | 206.1                                                                             | 175.3                                                                                     | -    | -                                                                                         | 203.9                                                                                     | -        | -    | 202.8                                                                                       | -     | -    | 200.6                                                                                        | -     | -    | 191.8                                                                                        | -     | -    |  |
| 95.1                                                                                                                                                                                        | 191.8*                                                                            | 167.6                                                                                     | -    | -                                                                                         | 195.1                                                                                     | 163.1    | -    | 194.0                                                                                       | -     | -    | 192.4                                                                                        | -     | -    | 185.2                                                                                        | -     | -    |  |
| 98.4                                                                                                                                                                                        | -                                                                                 | 159.8                                                                                     | -    | -                                                                                         | 186.3                                                                                     | 155.4    | -    | 185.2                                                                                       | -     | -    | 184.1                                                                                        | -     | -    | 178.6                                                                                        | -     | -    |  |
| 105.0                                                                                                                                                                                       | -                                                                                 | 147.2                                                                                     | -    | -                                                                                         | 172.0                                                                                     | 143.3    | -    | 170.9                                                                                       | 141.1 | -    | 169.8                                                                                        | -     | -    | 165.3                                                                                        | -     | -    |  |
| 111.5                                                                                                                                                                                       | -                                                                                 | 134.5                                                                                     | -    | -                                                                                         | 157.6                                                                                     | 131.2    | -    | 156.5                                                                                       | 129.0 | -    | 155.4                                                                                        | 127.9 | -    | 152.1                                                                                        | -     | -    |  |
| 114.8                                                                                                                                                                                       | -                                                                                 | 129.8                                                                                     | -    | -                                                                                         | 147.7*                                                                                    | 126.5    | -    | 151.0                                                                                       | 124.3 | -    | 149.9                                                                                        | 123.3 | -    | 146.9                                                                                        | -     | -    |  |
| 121.4                                                                                                                                                                                       | -                                                                                 | 120.4                                                                                     | -    | -                                                                                         | -                                                                                         | 117.1    | -    | 140.0                                                                                       | 114.9 | -    | 138.9                                                                                        | 114.1 | -    | 136.4                                                                                        | 110.2 | -    |  |
| 124.7                                                                                                                                                                                       | -                                                                                 | 115.7                                                                                     | 98.3 | -                                                                                         | -                                                                                         | 112.4    | -    | 134.5                                                                                       | 110.2 | -    | 133.4                                                                                        | 109.6 | -    | 131.2                                                                                        | 106.0 | -    |  |
| 134.5                                                                                                                                                                                       | -                                                                                 | -                                                                                         | 88.2 | -                                                                                         | -                                                                                         | 102.0    | -    | 117.9*                                                                                      | 99.8  | -    | 121.0                                                                                        | 98.3  | -    | 117.9                                                                                        | 95.1  | -    |  |
| 137.8                                                                                                                                                                                       | -                                                                                 | -                                                                                         | 84.9 | -                                                                                         | -                                                                                         | 98.5     | 80.7 | -                                                                                           | 96.3  | -    | 116.8                                                                                        | 95.0  | -    | 113.5                                                                                        | 91.5  | -    |  |
| 144.4                                                                                                                                                                                       | -                                                                                 | -                                                                                         | 79.8 | -                                                                                         | -                                                                                         | 92.6     | 75.4 | -                                                                                           | 90.5  | -    | 110.1                                                                                        | 89.1  | -    | 106.9                                                                                        | 85.6  | -    |  |
| 147.6                                                                                                                                                                                       | -                                                                                 | -                                                                                         | 77.3 | -                                                                                         | -                                                                                         | -        | 72.8 | -                                                                                           | 87.6  | 69.9 | 106.7                                                                                        | 86.1  | -    | 103.6                                                                                        | 82.7  | -    |  |
| 150.9                                                                                                                                                                                       | -                                                                                 | -                                                                                         | 74.7 | -                                                                                         | -                                                                                         | -        | 70.3 | -                                                                                           | 84.7  | 67.5 | 100.1*                                                                                       | 83.1  | -    | 100.3                                                                                        | 79.8  | -    |  |
| 154.2                                                                                                                                                                                       | -                                                                                 | -                                                                                         | -    | -                                                                                         | -                                                                                         | -        | 68.2 | -                                                                                           | 82.3  | 65.3 | 97.2*                                                                                        | 80.7  | -    | 97.6                                                                                         | 77.3  | -    |  |
| 160.8                                                                                                                                                                                       | -                                                                                 | -                                                                                         | -    | -                                                                                         | -                                                                                         | -        | 64.0 | -                                                                                           | 77.6  | 61.0 | -                                                                                            | 76.0  | 58.9 | 92.0                                                                                         | 72.2  | -    |  |
| 164.0                                                                                                                                                                                       | -                                                                                 | -                                                                                         | -    | -                                                                                         | -                                                                                         | -        | 61.9 | -                                                                                           | -     | 58.9 | -                                                                                            | 73.6  | 56.9 | 89.3                                                                                         | 69.7  | -    |  |
| 167.3                                                                                                                                                                                       | -                                                                                 | -                                                                                         | -    | -                                                                                         | -                                                                                         | -        | 60.2 | -                                                                                           | -     | 57.2 | -                                                                                            | 71.7  | 55.1 | 86.9                                                                                         | 67.6  | -    |  |
| 170.6                                                                                                                                                                                       | -                                                                                 | -                                                                                         | -    | -                                                                                         | -                                                                                         | -        | -    | -                                                                                           | -     | 55.4 | -                                                                                            | 69.7  | 53.4 | 81.4*                                                                                        | 65.6  | 48.7 |  |
| 173.9                                                                                                                                                                                       | -                                                                                 | -                                                                                         | -    | -                                                                                         | -                                                                                         | -        | -    | -                                                                                           | -     | 53.7 | -                                                                                            | 67.7  | 51.6 | 79.1*                                                                                        | 63.5  | 47.1 |  |
| 177.2                                                                                                                                                                                       | -                                                                                 | -                                                                                         | -    | -                                                                                         | -                                                                                         | -        | -    | -                                                                                           | -     | 52.0 | -                                                                                            | 65.7  | 49.8 | -                                                                                            | 61.5  | 45.4 |  |
| 180.4                                                                                                                                                                                       | -                                                                                 | -                                                                                         | -    | -                                                                                         | -                                                                                         | -        | -    | -                                                                                           | -     | 50.6 | -                                                                                            | 63.9  | 48.4 | -                                                                                            | 59.7  | 43.9 |  |
| 187.0                                                                                                                                                                                       | -                                                                                 | -                                                                                         | -    | -                                                                                         | -                                                                                         | -        | -    | -                                                                                           | -     | 47.8 | -                                                                                            | -     | 45.5 | -                                                                                            | 56.2  | 41.0 |  |
| 190.3                                                                                                                                                                                       | -                                                                                 | -                                                                                         | -    | -                                                                                         | -                                                                                         | -        | -    | -                                                                                           | -     | -    | -                                                                                            | -     | 44.1 | -                                                                                            | 54.5  | 39.5 |  |
| 200.1                                                                                                                                                                                       | -                                                                                 | -                                                                                         | -    | -                                                                                         | -                                                                                         | -        | -    | -                                                                                           | -     | -    | -                                                                                            | -     | 40.4 | -                                                                                            | 50.3  | 35.7 |  |
| 203.4                                                                                                                                                                                       | -                                                                                 | -                                                                                         | -    | -                                                                                         | -                                                                                         | -        | -    | -                                                                                           | -     | -    | -                                                                                            | -     | 39.2 | -                                                                                            | -     | 34.4 |  |
| 206.7                                                                                                                                                                                       | -                                                                                 | -                                                                                         | -    | -                                                                                         | -                                                                                         | -        | -    | -                                                                                           | -     | -    | -                                                                                            | -     | 38.4 | -                                                                                            | -     | 33.4 |  |
| 216.5                                                                                                                                                                                       | -                                                                                 | -                                                                                         | -    | -                                                                                         | -                                                                                         | -        | -    | -                                                                                           | -     | -    | -                                                                                            | -     | -    | -                                                                                            | -     | 30.4 |  |
| 226.4                                                                                                                                                                                       | -                                                                                 | -                                                                                         | -    | -                                                                                         | -                                                                                         | -        | -    | -                                                                                           | -     | -    | -                                                                                            | -     | -    | -                                                                                            | -     | 28.0 |  |

\* Main boom angle 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1

| 452,000 lb +  110,200 lb |                                                                                   |          |      |  27.6 ft |          |      |  32.2 ft/s |          |      | 360°  |          | ASME B30.5 |     |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|------|-------------------------------------------------------------------------------------------|----------|------|----------------------------------------------------------------------------------------------|----------|------|-------|----------|------------|-----|
|  157.5 ft                |                                                                                   |          |      |                                                                                           |          |      |                                                                                              |          |      |       |          |            |     |
|                          |  | 177.2 ft |      |                                                                                           | 196.9 ft |      |                                                                                              | 216.5 ft |      |       | 236.2 ft |            |     |
|                                                                                                           |                                                                                   | SW.1     |      |                                                                                           |          |      |                                                                                              |          |      |       |          |            |     |
|                                                                                                           |                                                                                   | 87°/85°  | 75°  | 65°                                                                                       | 87°/85°  | 75°  | 65°                                                                                          | 87°/85°  | 75°  | 65°   | 87°/85°  | 75°        | 65° |
| ft                                                                                                        |                                                                                   |          |      | 1,000 lb                                                                                  |          |      |                                                                                              |          |      |       |          |            |     |
| 62.3                                                                                                      | 271.2                                                                             | -        | -    | -                                                                                         | -        | -    | -                                                                                            | -        | -    | -     | -        | -          | -   |
| 65.6                                                                                                      | 257.9                                                                             | -        | -    | 249.1                                                                                     | -        | -    | -                                                                                            | -        | -    | -     | -        | -          | -   |
| 68.9                                                                                                      | 246.9                                                                             | -        | -    | 238.1                                                                                     | -        | -    | 224.9                                                                                        | -        | -    | -     | -        | -          | -   |
| 72.2                                                                                                      | 235.9                                                                             | -        | -    | 227.1                                                                                     | -        | -    | 220.5                                                                                        | -        | -    | -     | -        | -          | -   |
| 75.5                                                                                                      | 226.5                                                                             | -        | -    | 218.3                                                                                     | -        | -    | 211.6                                                                                        | -        | -    | 195.1 | -        | -          | -   |
| 78.7                                                                                                      | 217.2                                                                             | -        | -    | 209.4                                                                                     | -        | -    | 202.8                                                                                        | -        | -    | 194.0 | -        | -          | -   |
| 85.3                                                                                                      | 200.6                                                                             | -        | -    | 194.0                                                                                     | -        | -    | 187.4                                                                                        | -        | -    | 180.8 | -        | -          | -   |
| 91.9                                                                                                      | 186.3                                                                             | -        | -    | 179.7                                                                                     | -        | -    | 174.2                                                                                        | -        | -    | 167.6 | -        | -          | -   |
| 98.4                                                                                                      | 173.1                                                                             | -        | -    | 167.6                                                                                     | -        | -    | 162.0                                                                                        | -        | -    | 155.4 | -        | -          | -   |
| 111.5                                                                                                     | 152.1                                                                             | -        | -    | 146.6                                                                                     | -        | -    | 141.1                                                                                        | -        | -    | 135.6 | -        | -          | -   |
| 124.7                                                                                                     | 131.2                                                                             | -        | -    | 129.0                                                                                     | -        | -    | 124.6                                                                                        | -        | -    | 119.0 | -        | -          | -   |
| 128.0                                                                                                     | 126.8                                                                             | 101.6    | -    | 124.6                                                                                     | -        | -    | 121.0                                                                                        | -        | -    | 115.9 | -        | -          | -   |
| 137.8                                                                                                     | 113.5                                                                             | 91.1     | -    | 111.3                                                                                     | 88.6     | -    | 110.2                                                                                        | -        | -    | 106.5 | -        | -          | -   |
| 144.4                                                                                                     | 106.8                                                                             | 85.1     | -    | 104.7                                                                                     | 82.6     | -    | 103.6                                                                                        | 80.2     | -    | 100.8 | -        | -          | -   |
| 150.9                                                                                                     | 100.1                                                                             | 79.1     | -    | 98.1                                                                                      | 76.5     | -    | 97.0                                                                                         | 74.5     | -    | 95.0  | -        | -          | -   |
| 154.2                                                                                                     | 97.2                                                                              | 76.7     | -    | 95.3                                                                                      | 74.0     | -    | 94.1                                                                                         | 71.9     | -    | 92.3  | 68.3     | -          | -   |
| 164.0                                                                                                     | 88.6                                                                              | 69.2     | -    | 86.9                                                                                      | 66.4     | -    | 85.5                                                                                         | 64.4     | -    | 84.2  | 62.4     | -          | -   |
| 177.2                                                                                                     | 79.4                                                                              | 60.6     | -    | 77.2                                                                                      | 58.0     | -    | 75.8                                                                                         | 56.0     | -    | 74.5  | 54.0     | -          | -   |
| 180.4                                                                                                     | 77.4                                                                              | 58.9     | 43.0 | 75.1                                                                                      | 56.2     | -    | 73.9                                                                                         | 54.2     | -    | 72.5  | 52.2     | -          | -   |
| 190.3                                                                                                     | 68.6*                                                                             | 53.6     | 38.6 | 69.2                                                                                      | 50.9     | -    | 67.9                                                                                         | 48.9     | -    | 66.4  | 47.0     | -          | -   |
| 193.6                                                                                                     | -                                                                                 | 52.1     | 37.3 | 67.5                                                                                      | 49.4     | 34.2 | 66.1                                                                                         | 47.4     | -    | 64.6  | 45.3     | -          | -   |
| 203.4                                                                                                     | -                                                                                 | 47.6     | 33.5 | 62.4                                                                                      | 44.8     | 30.4 | 60.8                                                                                         | 42.8     | 28.2 | 59.3  | 40.8     | -          | -   |
| 210.0                                                                                                     | -                                                                                 | 45.1     | 31.3 | 56.9*                                                                                     | 42.2     | 28.2 | 57.9                                                                                         | 40.1     | 26.0 | 56.2  | 38.1     | -          | -   |
| 216.5                                                                                                     | -                                                                                 | 42.5     | 29.1 | -                                                                                         | 39.7     | 26.0 | 54.9                                                                                         | 37.7     | 23.8 | 53.1  | 35.5     | 21.4       | -   |
| 219.8                                                                                                     | -                                                                                 | 41.4     | 28.1 | -                                                                                         | 38.4     | 25.1 | 53.7                                                                                         | 36.5     | 22.9 | 51.7  | 34.3     | 20.4       | -   |
| 229.7                                                                                                     | -                                                                                 | -        | 25.4 | -                                                                                         | 35.3     | 22.3 | 47.0*                                                                                        | 33.1     | 20.1 | 47.6  | 30.9     | 17.6       | -   |
| 239.5                                                                                                     | -                                                                                 | -        | 23.0 | -                                                                                         | 32.4     | 19.8 | -                                                                                            | 30.1     | 17.6 | 44.0  | 27.9     | 15.1       | -   |
| 242.8                                                                                                     | -                                                                                 | -        | 22.3 | -                                                                                         | -        | 19.0 | -                                                                                            | 29.1     | 16.8 | 42.8  | 26.9     | 14.3       | -   |
| 246.1                                                                                                     | -                                                                                 | -        | 21.6 | -                                                                                         | -        | 18.3 | -                                                                                            | 28.3     | 16.0 | 39.0* | 25.9     | 13.6       | -   |
| 249.3                                                                                                     | -                                                                                 | -        | -    | -                                                                                         | -        | 17.6 | -                                                                                            | 27.4     | 15.3 | 37.9* | 24.9     | 12.9       | -   |
| 255.9                                                                                                     | -                                                                                 | -        | -    | -                                                                                         | -        | 16.3 | -                                                                                            | 25.8     | 13.9 | -     | 23.4     | 11.5       | -   |
| 262.5                                                                                                     | -                                                                                 | -        | -    | -                                                                                         | -        | 15.0 | -                                                                                            | -        | 12.7 | -     | 21.8     | 10.1       | -   |
| 265.7                                                                                                     | -                                                                                 | -        | -    | -                                                                                         | -        | -    | -                                                                                            | -        | 12.1 | -     | 21.1     | 9.5        | -   |
| 269.0                                                                                                     | -                                                                                 | -        | -    | -                                                                                         | -        | -    | -                                                                                            | -        | 11.5 | -     | 20.3     | -          | -   |
| 275.6                                                                                                     | -                                                                                 | -        | -    | -                                                                                         | -        | -    | -                                                                                            | -        | 10.4 | -     | 18.7     | -          | -   |
| 282.2                                                                                                     | -                                                                                 | -        | -    | -                                                                                         | -        | -    | -                                                                                            | -        | 9.3  | -     | -        | -          | -   |

\* Main boom angle 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  452,000 lb +  110,200 lb |                                                                                   |          |      |  27.6 ft |          |     |  32.2 ft/s |          |     | 360°  |          | ASME B30.5 |     |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|------|-------------------------------------------------------------------------------------------|----------|-----|----------------------------------------------------------------------------------------------|----------|-----|-------|----------|------------|-----|--|
|  157.5 ft                                                                                                  |                                                                                   |          |      |                                                                                           |          |     |                                                                                              |          |     |       |          |            |     |  |
|                                                                                                            |  | 255.9 ft |      |                                                                                           | 275.6 ft |     |                                                                                              | 295.3 ft |     |       | 315.0 ft |            |     |  |
|                                                                                                                                                                                             |                                                                                   | SW_1     |      |                                                                                           |          |     |                                                                                              |          |     |       |          |            |     |  |
|                                                                                                                                                                                             |                                                                                   | 87°/85°  | 75°  | 65°                                                                                       | 87°/85°  | 75° | 65°                                                                                          | 87°/85°  | 75° | 65°   | 87°/85°  | 75°        | 65° |  |
| ft                                                                                                                                                                                          |                                                                                   | 1,000 lb |      |                                                                                           |          |     |                                                                                              |          |     |       |          |            |     |  |
| 78.7                                                                                                                                                                                        | 166.4                                                                             | -        | -    | -                                                                                         | -        | -   | -                                                                                            | -        | -   | -     | -        | -          |     |  |
| 82.0                                                                                                                                                                                        | 165.9                                                                             | -        | -    | 142.2                                                                                     | -        | -   | -                                                                                            | -        | -   | -     | -        | -          |     |  |
| 85.3                                                                                                                                                                                        | 165.3                                                                             | -        | -    | 141.1                                                                                     | -        | -   | -                                                                                            | -        | -   | -     | -        | -          |     |  |
| 88.6                                                                                                                                                                                        | 163.7                                                                             | -        | -    | 140.5                                                                                     | -        | -   | 121.3                                                                                        | -        | -   | -     | -        | -          |     |  |
| 91.9                                                                                                                                                                                        | 162.0                                                                             | -        | -    | 140.0                                                                                     | -        | -   | 120.2                                                                                        | -        | -   | 104.3 | -        | -          |     |  |
| 98.4                                                                                                                                                                                        | 149.9                                                                             | -        | -    | 138.9                                                                                     | -        | -   | 119.0                                                                                        | -        | -   | 103.4 | -        | -          |     |  |
| 111.5                                                                                                                                                                                       | 131.2                                                                             | -        | -    | 125.7                                                                                     | -        | -   | 116.8                                                                                        | -        | -   | 101.4 | -        | -          |     |  |
| 124.7                                                                                                                                                                                       | 114.6                                                                             | -        | -    | 110.2                                                                                     | -        | -   | 106.0                                                                                        | -        | -   | 99.2  | -        | -          |     |  |
| 137.8                                                                                                                                                                                       | 102.3                                                                             | -        | -    | 97.4                                                                                      | -        | -   | 93.5                                                                                         | -        | -   | 88.8  | -        | -          |     |  |
| 150.9                                                                                                                                                                                       | 91.1                                                                              | -        | -    | 86.4                                                                                      | -        | -   | 82.7                                                                                         | -        | -   | 78.3  | -        | -          |     |  |
| 164.0                                                                                                                                                                                       | 81.6                                                                              | 58.4     | -    | 77.2                                                                                      | -        | -   | 73.6                                                                                         | -        | -   | 69.2  | -        | -          |     |  |
| 170.6                                                                                                                                                                                       | 77.4                                                                              | 55.1     | -    | 73.1                                                                                      | 50.3     | -   | 69.6                                                                                         | -        | -   | 65.3  | -        | -          |     |  |
| 177.2                                                                                                                                                                                       | 73.2                                                                              | 51.8     | -    | 69.0                                                                                      | 47.2     | -   | 65.5                                                                                         | -        | -   | 61.3  | -        | -          |     |  |
| 180.4                                                                                                                                                                                       | 71.2                                                                              | 50.0     | -    | 67.2                                                                                      | 45.7     | -   | 63.7                                                                                         | 42.1     | -   | 59.6  | -        | -          |     |  |
| 187.0                                                                                                                                                                                       | 67.1                                                                              | 46.5     | -    | 63.7                                                                                      | 42.7     | -   | 60.3                                                                                         | 39.3     | -   | 56.2  | 34.8     | -          |     |  |
| 190.3                                                                                                                                                                                       | 65.0                                                                              | 45.0     | -    | 61.9                                                                                      | 41.2     | -   | 58.6                                                                                         | 37.9     | -   | 54.5  | 33.5     | -          |     |  |
| 203.4                                                                                                                                                                                       | 58.0                                                                              | 38.8     | -    | 55.1                                                                                      | 35.5     | -   | 52.5                                                                                         | 32.8     | -   | 48.5  | 28.7     | -          |     |  |
| 216.5                                                                                                                                                                                       | 51.4                                                                              | 33.5     | -    | 48.5                                                                                      | 30.2     | -   | 47.0                                                                                         | 28.4     | -   | 43.0  | 24.3     | -          |     |  |
| 226.4                                                                                                                                                                                       | 47.2                                                                              | 30.0     | 16.3 | 44.4                                                                                      | 26.7     | -   | 42.8                                                                                         | 25.0     | -   | 39.3  | 21.3     | -          |     |  |
| 229.7                                                                                                                                                                                       | 45.9                                                                              | 28.9     | 15.4 | 43.0                                                                                      | 25.6     | -   | 41.4                                                                                         | 23.8     | -   | 38.1  | 20.3     | -          |     |  |
| 242.8                                                                                                                                                                                       | 40.8                                                                              | 24.9     | 12.1 | 37.9                                                                                      | 21.6     | -   | 36.4                                                                                         | 19.8     | -   | 33.7  | 16.8     | -          |     |  |
| 255.9                                                                                                                                                                                       | 36.4                                                                              | 21.2     | 9.3  | 33.5                                                                                      | 17.9     | -   | 32.0                                                                                         | 16.3     | -   | 29.8  | 13.4     | -          |     |  |
| 269.0                                                                                                                                                                                       | 30.2*                                                                             | 18.1     | -    | 29.5                                                                                      | 14.8     | -   | 28.0                                                                                         | 13.0     | -   | 25.8  | 10.6     | -          |     |  |
| 275.6                                                                                                                                                                                       | -                                                                                 | 16.6     | -    | 27.9                                                                                      | 13.3     | -   | 26.2                                                                                         | 11.6     | -   | 24.0  | 9.3      | -          |     |  |
| 282.2                                                                                                                                                                                       | -                                                                                 | 15.2     | -    | 26.2                                                                                      | 11.9     | -   | 24.5                                                                                         | 10.1     | -   | 22.3  | -        | -          |     |  |
| 285.4                                                                                                                                                                                       | -                                                                                 | 14.6     | -    | 22.9*                                                                                     | 11.2     | -   | 23.6                                                                                         | 9.5      | -   | 21.4  | -        | -          |     |  |
| 295.3                                                                                                                                                                                       | -                                                                                 | 12.8     | -    | -                                                                                         | 9.3      | -   | 21.2                                                                                         | -        | -   | 19.0  | -        | -          |     |  |
| 305.1                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | -        | -   | 16.8*                                                                                        | -        | -   | 16.8  | -        | -          |     |  |
| 308.4                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | -        | -   | -                                                                                            | -        | -   | 16.1  | -        | -          |     |  |
| 321.5                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | -        | -   | -                                                                                            | -        | -   | 11.2* | -        | -          |     |  |
| 324.8                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | -        | -   | -                                                                                            | -        | -   | 10.6* | -        | -          |     |  |

\* Main boom angle 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1

| 452,000 lb +  110,200 lb |                                                                                   |         |      |  27.6 ft |         |      |        |  32.2 ft/s |      |       |          | 360° |       | ASME B30.5 |      |     |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|------|-------------------------------------------------------------------------------------------|---------|------|--------|----------------------------------------------------------------------------------------------|------|-------|----------|------|-------|------------|------|-----|
|  177.2 ft                |                                                                                   |         |      |                                                                                           |         |      |        |                                                                                              |      |       |          |      |       |            |      |     |
|                          |  | 78.7 ft |      |                                                                                           | 98.4 ft |      |        | 118.1 ft                                                                                     |      |       | 137.8 ft |      |       | 157.5 ft   |      |     |
|                                                                                                           |                                                                                   | SW_1    |      |                                                                                           |         |      |        |                                                                                              |      |       |          |      |       |            |      |     |
|                                                                                                           |                                                                                   | 87°/85° | 75°  | 65°                                                                                       | 87°/85° | 75°  | 65°    | 87°/85°                                                                                      | 75°  | 65°   | 87°/85°  | 75°  | 65°   | 87°/85°    | 75°  | 65° |
| ft                                                                                                        |                                                                                   |         |      |                                                                                           |         |      |        | 1,000 lb                                                                                     |      |       |          |      |       |            |      |     |
| 39.4                                                                                                      | 476.2                                                                             | -       | -    | -                                                                                         | -       | -    | -      | -                                                                                            | -    | -     | -        | -    | -     | -          | -    |     |
| 45.9                                                                                                      | 414.5                                                                             | -       | -    | 399.0                                                                                     | -       | -    | -      | -                                                                                            | -    | -     | -        | -    | -     | -          | -    |     |
| 49.2                                                                                                      | 390.2                                                                             | -       | -    | 374.8                                                                                     | -       | -    | 359.4  | -                                                                                            | -    | -     | -        | -    | -     | -          | -    |     |
| 52.5                                                                                                      | 368.2                                                                             | -       | -    | 352.7                                                                                     | -       | -    | 339.5  | -                                                                                            | -    | 328.5 | -        | -    | -     | -          | -    |     |
| 55.8                                                                                                      | 348.3                                                                             | -       | -    | 335.1                                                                                     | -       | -    | 321.9  | -                                                                                            | -    | 310.9 | -        | -    | 297.6 | -          | -    |     |
| 59.1                                                                                                      | 328.5                                                                             | -       | -    | 317.5                                                                                     | -       | -    | 306.4  | -                                                                                            | -    | 295.4 | -        | -    | 284.4 | -          | -    |     |
| 65.6                                                                                                      | 297.6                                                                             | -       | -    | 286.6                                                                                     | -       | -    | 277.8  | -                                                                                            | -    | 269.0 | -        | -    | 257.9 | -          | -    |     |
| 72.2                                                                                                      | 273.4                                                                             | -       | -    | 262.4                                                                                     | -       | -    | 253.5  | -                                                                                            | -    | 244.7 | -        | -    | 235.9 | -          | -    |     |
| 78.7                                                                                                      | 251.3                                                                             | -       | -    | 242.5                                                                                     | -       | -    | 233.7  | -                                                                                            | -    | 224.9 | -        | -    | 217.2 | -          | -    |     |
| 85.3                                                                                                      | 224.9                                                                             | -       | -    | 222.7                                                                                     | -       | -    | 216.1  | -                                                                                            | -    | 209.4 | -        | -    | 200.6 | -          | -    |     |
| 91.9                                                                                                      | 205.0                                                                             | -       | -    | 202.8                                                                                     | -       | -    | 200.6  | -                                                                                            | -    | 194.0 | -        | -    | 186.3 | -          | -    |     |
| 95.1                                                                                                      | 190.1*                                                                            | 159.8   | -    | 194.0                                                                                     | -       | -    | 192.4  | -                                                                                            | -    | 187.9 | -        | -    | 179.7 | -          | -    |     |
| 98.4                                                                                                      | 181.9*                                                                            | 153.2   | -    | 185.2                                                                                     | -       | -    | 184.1  | -                                                                                            | -    | 181.9 | -        | -    | 173.1 | -          | -    |     |
| 101.7                                                                                                     | -                                                                                 | 147.2   | -    | 178.0                                                                                     | 143.3   | -    | 176.9  | -                                                                                            | -    | 175.0 | -        | -    | 167.6 | -          | -    |     |
| 111.5                                                                                                     | -                                                                                 | 129.0   | -    | 156.5                                                                                     | 125.7   | -    | 155.4  | 123.5                                                                                        | -    | 154.3 | -        | -    | 151.0 | -          | -    |     |
| 118.1                                                                                                     | -                                                                                 | 119.6   | -    | 140.0*                                                                                    | 116.7   | -    | 144.4  | 114.5                                                                                        | -    | 143.3 | 112.4    | -    | 140.5 | -          | -    |     |
| 124.7                                                                                                     | -                                                                                 | 110.2   | -    | -                                                                                         | 107.8   | -    | 133.4  | 105.8                                                                                        | -    | 132.3 | 104.5    | -    | 130.1 | -          | -    |     |
| 128.0                                                                                                     | -                                                                                 | 107.4   | -    | -                                                                                         | 103.8   | -    | 129.0  | 102.3                                                                                        | -    | 128.1 | 101.0    | -    | 125.7 | 97.0       | -    |     |
| 134.5                                                                                                     | -                                                                                 | -       | 79.4 | -                                                                                         | 97.1    | -    | 116.6* | 95.2                                                                                         | -    | 119.9 | 93.9     | -    | 116.8 | 89.9       | -    |     |
| 137.8                                                                                                     | -                                                                                 | -       | 76.5 | -                                                                                         | 93.7    | -    | 112.4* | 91.7                                                                                         | -    | 115.7 | 90.4     | -    | 112.4 | 86.4       | -    |     |
| 147.6                                                                                                     | -                                                                                 | -       | 69.1 | -                                                                                         | 85.3    | 64.4 | -      | 83.3                                                                                         | -    | 105.6 | 81.6     | -    | 102.7 | 77.7       | -    |     |
| 150.9                                                                                                     | -                                                                                 | -       | 66.6 | -                                                                                         | -       | 62.2 | -      | 80.5                                                                                         | -    | 98.3* | 78.7     | -    | 99.4  | 74.7       | -    |     |
| 154.2                                                                                                     | -                                                                                 | -       | 64.6 | -                                                                                         | -       | 60.2 | -      | 78.1                                                                                         | -    | 95.7* | 76.3     | -    | 96.7  | 72.2       | -    |     |
| 157.5                                                                                                     | -                                                                                 | -       | 62.6 | -                                                                                         | -       | 58.3 | -      | 75.7                                                                                         | 55.3 | -     | 74.0     | -    | 93.9  | 69.7       | -    |     |
| 164.0                                                                                                     | -                                                                                 | -       | -    | -                                                                                         | -       | 54.5 | -      | 71.0                                                                                         | 51.6 | -     | 69.2     | -    | 88.4  | 65.0       | -    |     |
| 167.3                                                                                                     | -                                                                                 | -       | -    | -                                                                                         | -       | 52.9 | -      | 69.0                                                                                         | 49.8 | -     | 67.2     | 47.8 | 86.0  | 63.1       | -    |     |
| 173.9                                                                                                     | -                                                                                 | -       | -    | -                                                                                         | -       | 49.8 | -      | -                                                                                            | 46.5 | -     | 63.3     | 44.6 | 77.8* | 59.1       | -    |     |
| 177.2                                                                                                     | -                                                                                 | -       | -    | -                                                                                         | -       | 48.3 | -      | -                                                                                            | 45.0 | -     | 61.3     | 43.0 | -     | 57.1       | -    |     |
| 180.4                                                                                                     | -                                                                                 | -       | -    | -                                                                                         | -       | -    | -      | -                                                                                            | 43.7 | -     | 59.7     | 41.6 | -     | 55.4       | 37.0 |     |
| 187.0                                                                                                     | -                                                                                 | -       | -    | -                                                                                         | -       | -    | -      | -                                                                                            | 41.0 | -     | 56.4     | 38.9 | -     | 52.1       | 34.2 |     |
| 190.3                                                                                                     | -                                                                                 | -       | -    | -                                                                                         | -       | -    | -      | -                                                                                            | 39.7 | -     | -        | 37.5 | -     | 50.5       | 32.8 |     |
| 196.9                                                                                                     | -                                                                                 | -       | -    | -                                                                                         | -       | -    | -      | -                                                                                            | 37.7 | -     | -        | 35.3 | -     | 47.7       | 30.6 |     |
| 203.4                                                                                                     | -                                                                                 | -       | -    | -                                                                                         | -       | -    | -      | -                                                                                            | -    | -     | -        | 33.1 | -     | 45.0       | 28.4 |     |
| 216.5                                                                                                     | -                                                                                 | -       | -    | -                                                                                         | -       | -    | -      | -                                                                                            | -    | -     | -        | 29.5 | -     | -          | 24.5 |     |
| 229.7                                                                                                     | -                                                                                 | -       | -    | -                                                                                         | -       | -    | -      | -                                                                                            | -    | -     | -        | -    | -     | -          | 21.4 |     |
| 232.9                                                                                                     | -                                                                                 | -       | -    | -                                                                                         | -       | -    | -      | -                                                                                            | -    | -     | -        | -    | -     | -          | 20.7 |     |

\* Main boom angle 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1



| 452,000 lb +  110,200 lb |                                                                                   |          |      |  27.6 ft |          |      |  32.2 ft/s |          |      | 360°  |          | ASME B30.5 |     |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|------|-------------------------------------------------------------------------------------------|----------|------|----------------------------------------------------------------------------------------------|----------|------|-------|----------|------------|-----|
|  177.2 ft                |                                                                                   |          |      |                                                                                           |          |      |                                                                                              |          |      |       |          |            |     |
|                          |  | 177.2 ft |      |                                                                                           | 196.9 ft |      |                                                                                              | 216.5 ft |      |       | 236.2 ft |            |     |
|                                                                                                           |                                                                                   | SW_1     |      |                                                                                           |          |      |                                                                                              |          |      |       |          |            |     |
|                                                                                                           |                                                                                   | 87°/85°  | 75°  | 65°                                                                                       | 87°/85°  | 75°  | 65°                                                                                          | 87°/85°  | 75°  | 65°   | 87°/85°  | 75°        | 65° |
| ft                                                                                                        |                                                                                   | 1,000 lb |      |                                                                                           |          |      |                                                                                              |          |      |       |          |            |     |
| 62.3                                                                                                      | 260.1                                                                             | -        | -    | -                                                                                         | -        | -    | -                                                                                            | -        | -    | -     | -        | -          |     |
| 65.6                                                                                                      | 249.1                                                                             | -        | -    | 240.3                                                                                     | -        | -    | -                                                                                            | -        | -    | -     | -        | -          |     |
| 72.2                                                                                                      | 227.1                                                                             | -        | -    | 220.5                                                                                     | -        | -    | 208.3                                                                                        | -        | -    | -     | -        | -          |     |
| 75.5                                                                                                      | 218.3                                                                             | -        | -    | 211.6                                                                                     | -        | -    | 202.3                                                                                        | -        | -    | 181.9 | -        | -          |     |
| 78.7                                                                                                      | 209.4                                                                             | -        | -    | 202.8                                                                                     | -        | -    | 196.2                                                                                        | -        | -    | 179.7 | -        | -          |     |
| 85.3                                                                                                      | 194.0                                                                             | -        | -    | 187.4                                                                                     | -        | -    | 180.8                                                                                        | -        | -    | 174.2 | -        | -          |     |
| 91.9                                                                                                      | 179.7                                                                             | -        | -    | 173.1                                                                                     | -        | -    | 167.6                                                                                        | -        | -    | 162.0 | -        | -          |     |
| 98.4                                                                                                      | 167.6                                                                             | -        | -    | 162.0                                                                                     | -        | -    | 156.5                                                                                        | -        | -    | 149.9 | -        | -          |     |
| 111.5                                                                                                     | 146.6                                                                             | -        | -    | 141.1                                                                                     | -        | -    | 136.7                                                                                        | -        | -    | 131.2 | -        | -          |     |
| 124.7                                                                                                     | 130.1                                                                             | -        | -    | 124.6                                                                                     | -        | -    | 121.3                                                                                        | -        | -    | 115.7 | -        | -          |     |
| 134.5                                                                                                     | 116.8                                                                             | 89.5     | -    | 114.6                                                                                     | -        | -    | 111.2                                                                                        | -        | -    | 106.2 | -        | -          |     |
| 137.8                                                                                                     | 112.4                                                                             | 86.2     | -    | 111.3                                                                                     | -        | -    | 107.8                                                                                        | -        | -    | 103.0 | -        | -          |     |
| 144.4                                                                                                     | 105.8                                                                             | 80.2     | -    | 104.4                                                                                     | 77.2     | -    | 102.0                                                                                        | -        | -    | 97.4  | -        | -          |     |
| 150.9                                                                                                     | 99.2                                                                              | 74.3     | -    | 97.4                                                                                      | 71.4     | -    | 96.1                                                                                         | 68.8     | -    | 91.9  | -        | -          |     |
| 160.8                                                                                                     | 90.8                                                                              | 66.8     | -    | 88.8                                                                                      | 64.2     | -    | 87.5                                                                                         | 62.0     | -    | 84.8  | 58.0     | -          |     |
| 164.0                                                                                                     | 88.0                                                                              | 64.6     | -    | 86.0                                                                                      | 61.7     | -    | 84.7                                                                                         | 59.7     | -    | 82.5  | 56.2     | -          |     |
| 177.2                                                                                                     | 78.5                                                                              | 56.4     | -    | 76.5                                                                                      | 53.8     | -    | 75.2                                                                                         | 51.8     | -    | 73.9  | 49.8     | -          |     |
| 190.3                                                                                                     | 67.5*                                                                             | 49.6     | 32.2 | 68.6                                                                                      | 47.0     | -    | 67.0                                                                                         | 45.0     | -    | 65.7  | 43.0     | -          |     |
| 193.6                                                                                                     | 65.7*                                                                             | 48.2     | 31.0 | 66.9                                                                                      | 45.5     | -    | 65.3                                                                                         | 43.4     | -    | 64.0  | 41.5     | -          |     |
| 203.4                                                                                                     | -                                                                                 | 43.9     | 27.6 | 61.7                                                                                      | 41.0     | 24.5 | 60.2                                                                                         | 39.0     | -    | 58.9  | 37.0     | -          |     |
| 213.3                                                                                                     | -                                                                                 | 40.2     | 24.6 | 54.2*                                                                                     | 37.4     | 21.3 | 55.9                                                                                         | 35.2     | 19.2 | 54.0  | 33.2     | -          |     |
| 216.5                                                                                                     | -                                                                                 | 39.0     | 23.6 | -                                                                                         | 36.2     | 20.3 | 54.5                                                                                         | 34.0     | 18.1 | 52.5  | 32.0     | -          |     |
| 223.1                                                                                                     | -                                                                                 | 36.8     | 21.8 | -                                                                                         | 34.0     | 18.6 | 51.7                                                                                         | 31.9     | 16.4 | 49.7  | 29.8     | 13.9       |     |
| 229.7                                                                                                     | -                                                                                 | -        | 20.1 | -                                                                                         | 31.7     | 17.0 | 45.6*                                                                                        | 29.8     | 14.8 | 47.0  | 27.6     | 12.3       |     |
| 232.9                                                                                                     | -                                                                                 | -        | 19.3 | -                                                                                         | 30.9     | 16.2 | 44.5*                                                                                        | 28.8     | 14.0 | 45.7  | 26.6     | 11.6       |     |
| 242.8                                                                                                     | -                                                                                 | -        | 17.2 | -                                                                                         | 28.2     | 13.9 | -                                                                                            | 26.0     | 11.7 | 42.1  | 23.6     | 9.3        |     |
| 249.3                                                                                                     | -                                                                                 | -        | 15.9 | -                                                                                         | -        | 12.6 | -                                                                                            | 24.3     | 10.4 | 36.8* | 21.9     | -          |     |
| 252.6                                                                                                     | -                                                                                 | -        | 15.2 | -                                                                                         | -        | 11.9 | -                                                                                            | 23.5     | 9.7  | -     | 21.1     | -          |     |
| 255.9                                                                                                     | -                                                                                 | -        | -    | -                                                                                         | -        | 11.2 | -                                                                                            | 22.7     | 9.0  | -     | 20.3     | -          |     |
| 262.5                                                                                                     | -                                                                                 | -        | -    | -                                                                                         | -        | 10.3 | -                                                                                            | 21.2     | -    | -     | 18.7     | -          |     |
| 269.0                                                                                                     | -                                                                                 | -        | -    | -                                                                                         | -        | 9.3  | -                                                                                            | -        | -    | -     | 17.2     | -          |     |
| 282.2                                                                                                     | -                                                                                 | -        | -    | -                                                                                         | -        | -    | -                                                                                            | -        | -    | -     | 14.8     | -          |     |

\* Main boom angle 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  452,000 lb +  110,200 lb |                                                                                   |          |     |  27.6 ft |          |     |  32.2 ft/s |          |     | 360° |          | ASME B30.5 |     |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|-----|-------------------------------------------------------------------------------------------|----------|-----|----------------------------------------------------------------------------------------------|----------|-----|------|----------|------------|-----|--|--|
|  177.2 ft                                                                                                  |                                                                                   |          |     |                                                                                           |          |     |                                                                                              |          |     |      |          |            |     |  |  |
|                                                                                                            |  | 255.9 ft |     |                                                                                           | 275.6 ft |     |                                                                                              | 295.3 ft |     |      | 315.0 ft |            |     |  |  |
|                                                                                                                                                                                             |                                                                                   | SW_1     |     |                                                                                           |          |     |                                                                                              |          |     |      |          |            |     |  |  |
|                                                                                                                                                                                             |                                                                                   | 87°/85°  | 75° | 65°                                                                                       | 87°/85°  | 75° | 65°                                                                                          | 87°/85°  | 75° | 65°  | 87°/85°  | 75°        | 65° |  |  |
| ft                                                                                                                                                                                          |                                                                                   |          |     | 1,000 lb                                                                                  |          |     |                                                                                              |          |     |      |          |            |     |  |  |
| 78.7                                                                                                                                                                                        | 153.2                                                                             | -        | -   | -                                                                                         | -        | -   | -                                                                                            | -        | -   | -    | -        | -          | -   |  |  |
| 85.3                                                                                                                                                                                        | 152.1                                                                             | -        | -   | 132.3                                                                                     | -        | -   | -                                                                                            | -        | -   | -    | -        | -          | -   |  |  |
| 88.6                                                                                                                                                                                        | 151.0                                                                             | -        | -   | 131.7                                                                                     | -        | -   | 113.5                                                                                        | -        | -   | -    | -        | -          | -   |  |  |
| 91.9                                                                                                                                                                                        | 149.9                                                                             | -        | -   | 131.2                                                                                     | -        | -   | 112.4                                                                                        | -        | -   | -    | 97.7     | -          | -   |  |  |
| 98.4                                                                                                                                                                                        | 144.4                                                                             | -        | -   | 130.1                                                                                     | -        | -   | 111.3                                                                                        | -        | -   | -    | 96.8     | -          | -   |  |  |
| 111.5                                                                                                                                                                                       | 126.8                                                                             | -        | -   | 121.3                                                                                     | -        | -   | 110.0                                                                                        | -        | -   | -    | 95.0     | -          | -   |  |  |
| 124.7                                                                                                                                                                                       | 111.3                                                                             | -        | -   | 106.3                                                                                     | -        | -   | 102.3                                                                                        | -        | -   | -    | 93.0     | -          | -   |  |  |
| 137.8                                                                                                                                                                                       | 98.8                                                                              | -        | -   | 93.9                                                                                      | -        | -   | 89.9                                                                                         | -        | -   | -    | 85.3     | -          | -   |  |  |
| 150.9                                                                                                                                                                                       | 88.0                                                                              | -        | -   | 83.3                                                                                      | -        | -   | 79.6                                                                                         | -        | -   | -    | 75.2     | -          | -   |  |  |
| 164.0                                                                                                                                                                                       | 78.7                                                                              | -        | -   | 74.3                                                                                      | -        | -   | 70.8                                                                                         | -        | -   | -    | 66.4     | -          | -   |  |  |
| 167.3                                                                                                                                                                                       | 76.7                                                                              | 50.7     | -   | 72.3                                                                                      | -        | -   | 68.8                                                                                         | -        | -   | -    | 64.5     | -          | -   |  |  |
| 177.2                                                                                                                                                                                       | 70.8                                                                              | 46.1     | -   | 66.4                                                                                      | 41.4     | -   | 63.1                                                                                         | -        | -   | -    | 58.9     | -          | -   |  |  |
| 183.7                                                                                                                                                                                       | 67.2                                                                              | 43.2     | -   | 62.8                                                                                      | 38.7     | -   | 59.6                                                                                         | 35.1     | -   | -    | 55.4     | -          | -   |  |  |
| 190.3                                                                                                                                                                                       | 63.7                                                                              | 40.3     | -   | 59.5                                                                                      | 35.9     | -   | 56.2                                                                                         | 32.4     | -   | -    | 52.0     | -          | -   |  |  |
| 193.6                                                                                                                                                                                       | 62.2                                                                              | 39.0     | -   | 58.0                                                                                      | 34.7     | -   | 54.7                                                                                         | 31.3     | -   | -    | 50.5     | 26.9       | -   |  |  |
| 203.4                                                                                                                                                                                       | 57.3                                                                              | 35.1     | -   | 53.4                                                                                      | 31.1     | -   | 50.3                                                                                         | 27.8     | -   | -    | 46.1     | 23.6       | -   |  |  |
| 216.5                                                                                                                                                                                       | 50.7                                                                              | 30.0     | -   | 47.8                                                                                      | 26.7     | -   | 44.8                                                                                         | 23.6     | -   | -    | 41.0     | 19.4       | -   |  |  |
| 229.7                                                                                                                                                                                       | 45.2                                                                              | 25.6     | -   | 42.3                                                                                      | 22.3     | -   | 40.1                                                                                         | 19.8     | -   | -    | 36.2     | 15.7       | -   |  |  |
| 242.8                                                                                                                                                                                       | 40.1                                                                              | 21.6     | -   | 37.3                                                                                      | 18.3     | -   | 35.7                                                                                         | 16.5     | -   | -    | 32.0     | 12.3       | -   |  |  |
| 255.9                                                                                                                                                                                       | 35.9                                                                              | 18.3     | -   | 32.8                                                                                      | 15.0     | -   | 31.3                                                                                         | 13.2     | -   | -    | 28.0     | 9.5        | -   |  |  |
| 269.0                                                                                                                                                                                       | 29.1*                                                                             | 15.2     | -   | 28.9                                                                                      | 11.9     | -   | 27.3                                                                                         | 10.1     | -   | -    | 24.7     | -          | -   |  |  |
| 272.3                                                                                                                                                                                       | -                                                                                 | 14.6     | -   | 28.1                                                                                      | 11.2     | -   | 26.5                                                                                         | 9.5      | -   | -    | 23.9     | -          | -   |  |  |
| 282.2                                                                                                                                                                                       | -                                                                                 | 12.6     | -   | 25.6                                                                                      | 9.0      | -   | 23.8                                                                                         | -        | -   | -    | 21.4     | -          | -   |  |  |
| 288.7                                                                                                                                                                                       | -                                                                                 | 11.4     | -   | 21.4*                                                                                     | -        | -   | 22.3                                                                                         | -        | -   | -    | 20.0     | -          | -   |  |  |
| 295.3                                                                                                                                                                                       | -                                                                                 | 10.1     | -   | -                                                                                         | -        | -   | 20.7                                                                                         | -        | -   | -    | 18.5     | -          | -   |  |  |
| 298.6                                                                                                                                                                                       | -                                                                                 | 9.5      | -   | -                                                                                         | -        | -   | 20.0                                                                                         | -        | -   | -    | 17.8     | -          | -   |  |  |
| 308.4                                                                                                                                                                                       | -                                                                                 | -        | -   | -                                                                                         | -        | -   | 15.4*                                                                                        | -        | -   | -    | 15.7     | -          | -   |  |  |
| 321.5                                                                                                                                                                                       | -                                                                                 | -        | -   | -                                                                                         | -        | -   | -                                                                                            | -        | -   | -    | 13.0     | -          | -   |  |  |
| 324.8                                                                                                                                                                                       | -                                                                                 | -        | -   | -                                                                                         | -        | -   | -                                                                                            | -        | -   | -    | 9.9*     | -          | -   |  |  |

\* Main boom angle 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  452,000 lb +  110,200 lb |         |       |      |  27.6 ft |       |      |          |  32.2 ft/s |      |          |      | 360° |          | ASME B30.5 |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|------|-------------------------------------------------------------------------------------------|-------|------|----------|---------------------------------------------------------------------------------------------|------|----------|------|------|----------|------------|------|
|  196.9 ft                                                                                                  |         |       |      |                                                                                           |       |      |          |                                                                                             |      |          |      |      |          |            |      |
|                                                                                                            | 78.7 ft |       |      | 98.4 ft                                                                                   |       |      | 118.1 ft |                                                                                             |      | 137.8 ft |      |      | 157.5 ft |            |      |
|                                                                                                                                                                                             | SW_1    |       |      |                                                                                           |       |      |          |                                                                                             |      |          |      |      |          |            |      |
|                                                                                                            | 87°/85° | 75°   | 65°  | 87°/85°                                                                                   | 75°   | 65°  | 87°/85°  | 75°                                                                                         | 65°  | 87°/85°  | 75°  | 65°  | 87°/85°  | 75°        | 65°  |
| ft                                                                                                                                                                                          |         |       |      |                                                                                           |       |      | 1,000 lb |                                                                                             |      |          |      |      |          |            |      |
| 42.7                                                                                                                                                                                        | 423.3   | -     | -    | -                                                                                         | -     | -    | -        | -                                                                                           | -    | -        | -    | -    | -        | -          | -    |
| 45.9                                                                                                                                                                                        | 396.8   | -     | -    | 381.4                                                                                     | -     | -    | -        | -                                                                                           | -    | -        | -    | -    | -        | -          | -    |
| 49.2                                                                                                                                                                                        | 372.6   | -     | -    | 359.4                                                                                     | -     | -    | 343.9    | -                                                                                           | -    | -        | -    | -    | -        | -          | -    |
| 52.5                                                                                                                                                                                        | 352.7   | -     | -    | 339.5                                                                                     | -     | -    | 326.3    | -                                                                                           | -    | -        | -    | -    | -        | -          | -    |
| 55.8                                                                                                                                                                                        | 332.9   | -     | -    | 321.9                                                                                     | -     | -    | 308.6    | -                                                                                           | -    | 299.8    | -    | -    | -        | -          | -    |
| 59.1                                                                                                                                                                                        | 317.5   | -     | -    | 304.2                                                                                     | -     | -    | 293.2    | -                                                                                           | -    | 284.4    | -    | -    | 271.2    | -          | -    |
| 65.6                                                                                                                                                                                        | 286.6   | -     | -    | 277.8                                                                                     | -     | -    | 266.8    | -                                                                                           | -    | 257.9    | -    | -    | 246.9    | -          | -    |
| 72.2                                                                                                                                                                                        | 262.4   | -     | -    | 253.5                                                                                     | -     | -    | 244.7    | -                                                                                           | -    | 235.9    | -    | -    | 227.1    | -          | -    |
| 78.7                                                                                                                                                                                        | 242.5   | -     | -    | 233.7                                                                                     | -     | -    | 224.9    | -                                                                                           | -    | 218.3    | -    | -    | 209.4    | -          | -    |
| 85.3                                                                                                                                                                                        | 224.9   | -     | -    | 217.2                                                                                     | -     | -    | 208.3    | -                                                                                           | -    | 201.7    | -    | -    | 194.0    | -          | -    |
| 91.9                                                                                                                                                                                        | 203.9   | -     | -    | 200.6                                                                                     | -     | -    | 194.0    | -                                                                                           | -    | 188.5    | -    | -    | 179.7    | -          | -    |
| 98.4                                                                                                                                                                                        | 178.6*  | 146.6 | -    | 183.0                                                                                     | -     | -    | 180.8    | -                                                                                           | -    | 175.3    | -    | -    | 167.6    | -          | -    |
| 108.3                                                                                                                                                                                       | -       | 128.4 | -    | 162.3                                                                                     | 124.6 | -    | 160.1    | -                                                                                           | -    | 158.7    | -    | -    | 152.7    | -          | -    |
| 111.5                                                                                                                                                                                       | -       | 122.4 | -    | 155.4                                                                                     | 119.0 | -    | 153.2    | -                                                                                           | -    | 153.2    | -    | -    | 147.7    | -          | -    |
| 114.8                                                                                                                                                                                       | -       | 118.1 | -    | 143.3*                                                                                    | 114.8 | -    | 148.0    | 112.4                                                                                       | -    | 147.7    | -    | -    | 143.0    | -          | -    |
| 118.1                                                                                                                                                                                       | -       | 113.8 | -    | 137.8*                                                                                    | 110.6 | -    | 142.7    | 108.4                                                                                       | -    | 142.2    | -    | -    | 138.3    | -          | -    |
| 124.7                                                                                                                                                                                       | -       | 105.6 | -    | -                                                                                         | 102.1 | -    | 132.3    | 100.3                                                                                       | -    | 131.2    | 98.8 | -    | 129.0    | -          | -    |
| 134.5                                                                                                                                                                                       | -       | 95.0  | -    | -                                                                                         | 91.8  | -    | 114.4*   | 89.7                                                                                        | -    | 118.8    | 88.2 | -    | 115.7    | 83.8       | -    |
| 137.8                                                                                                                                                                                       | -       | -     | -    | -                                                                                         | 88.4  | -    | 110.2*   | 86.2                                                                                        | -    | 114.6    | 84.7 | -    | 111.3    | 80.5       | -    |
| 144.4                                                                                                                                                                                       | -       | -     | 62.2 | -                                                                                         | 82.9  | -    | -        | 80.6                                                                                        | -    | 108.0    | 78.9 | -    | 104.8    | 74.5       | -    |
| 150.9                                                                                                                                                                                       | -       | -     | 58.0 | -                                                                                         | 77.4  | -    | -        | 75.0                                                                                        | -    | 101.4    | 73.2 | -    | 98.3     | 69.2       | -    |
| 154.2                                                                                                                                                                                       | -       | -     | 56.2 | -                                                                                         | 75.2  | 51.4 | -        | 72.7                                                                                        | -    | 94.0*    | 70.8 | -    | 95.6     | 66.9       | -    |
| 157.5                                                                                                                                                                                       | -       | -     | 54.3 | -                                                                                         | -     | 49.6 | -        | 70.4                                                                                        | -    | 91.3*    | 68.3 | -    | 92.8     | 64.6       | -    |
| 164.0                                                                                                                                                                                       | -       | -     | 50.7 | -                                                                                         | -     | 46.1 | -        | 65.9                                                                                        | -    | -        | 63.9 | -    | 87.3     | 60.0       | -    |
| 167.3                                                                                                                                                                                       | -       | -     | 49.2 | -                                                                                         | -     | 44.6 | -        | 63.9                                                                                        | 41.9 | -        | 62.1 | -    | 85.0     | 58.0       | -    |
| 170.6                                                                                                                                                                                       | -       | -     | -    | -                                                                                         | -     | 43.2 | -        | -                                                                                           | 61.9 | 40.4     | -    | 60.2 | -        | 82.7       | 56.1 |
| 177.2                                                                                                                                                                                       | -       | -     | -    | -                                                                                         | -     | 40.3 | -        | -                                                                                           | 37.5 | -        | 56.4 | 35.5 | 74.3*    | 52.2       | -    |
| 187.0                                                                                                                                                                                       | -       | -     | -    | -                                                                                         | -     | 37.0 | -        | -                                                                                           | 33.8 | -        | 51.8 | 31.7 | -        | 47.5       | -    |
| 190.3                                                                                                                                                                                       | -       | -     | -    | -                                                                                         | -     | -    | -        | -                                                                                           | 32.6 | -        | 50.3 | 30.4 | -        | 45.9       | 25.8 |
| 203.4                                                                                                                                                                                       | -       | -     | -    | -                                                                                         | -     | -    | -        | -                                                                                           | 28.7 | -        | -    | 26.2 | -        | 40.6       | 21.6 |
| 210.0                                                                                                                                                                                       | -       | -     | -    | -                                                                                         | -     | -    | -        | -                                                                                           | -    | -        | -    | 24.6 | -        | 38.4       | 19.8 |
| 216.5                                                                                                                                                                                       | -       | -     | -    | -                                                                                         | -     | -    | -        | -                                                                                           | -    | -        | -    | 22.9 | -        | -          | 18.1 |
| 223.1                                                                                                                                                                                       | -       | -     | -    | -                                                                                         | -     | -    | -        | -                                                                                           | -    | -        | -    | 21.6 | -        | -          | 16.7 |
| 229.7                                                                                                                                                                                       | -       | -     | -    | -                                                                                         | -     | -    | -        | -                                                                                           | -    | -        | -    | -    | -        | -          | 15.2 |
| 242.8                                                                                                                                                                                       | -       | -     | -    | -                                                                                         | -     | -    | -        | -                                                                                           | -    | -        | -    | -    | -        | -          | 13.0 |

\* Main boom angle 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  452,000 lb +  110,200 lb |                                                                                   |          |      |  27.6 ft |          |      |  32.2 ft/s |          |     | 360° |          | ASME B30.5 |     |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|------|-------------------------------------------------------------------------------------------|----------|------|---------------------------------------------------------------------------------------------|----------|-----|------|----------|------------|-----|--|--|
|  196.9 ft                                                                                                  |                                                                                   |          |      |                                                                                           |          |      |                                                                                             |          |     |      |          |            |     |  |  |
|                                                                                                            |  | 177.2 ft |      |                                                                                           | 196.9 ft |      |                                                                                             | 216.5 ft |     |      | 236.2 ft |            |     |  |  |
|                                                                                                                                                                                             |                                                                                   | SW_1     |      |                                                                                           |          |      |                                                                                             |          |     |      |          |            |     |  |  |
|                                                                                                                                                                                             |                                                                                   | 87°/85°  | 75°  | 65°                                                                                       | 87°/85°  | 75°  | 65°                                                                                         | 87°/85°  | 75° | 65°  | 87°/85°  | 75°        | 65° |  |  |
| ft                                                                                                                                                                                          |                                                                                   |          |      | 1,000 lb                                                                                  |          |      |                                                                                             |          |     |      |          |            |     |  |  |
| 62.3                                                                                                                                                                                        | 251.3                                                                             | -        | -    | -                                                                                         | -        | -    | -                                                                                           | -        | -   | -    | -        | -          |     |  |  |
| 65.6                                                                                                                                                                                        | 240.3                                                                             | -        | -    | 222.7                                                                                     | -        | -    | -                                                                                           | -        | -   | -    | -        | -          |     |  |  |
| 72.2                                                                                                                                                                                        | 219.4                                                                             | -        | -    | 211.6                                                                                     | -        | -    | 192.9                                                                                       | -        | -   | -    | -        | -          |     |  |  |
| 75.5                                                                                                                                                                                        | 210.5                                                                             | -        | -    | 203.4                                                                                     | -        | -    | 190.7                                                                                       | -        | -   | -    | 168.7    | -          |     |  |  |
| 78.7                                                                                                                                                                                        | 201.7                                                                             | -        | -    | 195.1                                                                                     | -        | -    | 188.5                                                                                       | -        | -   | -    | 167.6    | -          |     |  |  |
| 85.3                                                                                                                                                                                        | 187.4                                                                             | -        | -    | 180.8                                                                                     | -        | -    | 174.2                                                                                       | -        | -   | -    | 165.3    | -          |     |  |  |
| 91.9                                                                                                                                                                                        | 174.2                                                                             | -        | -    | 167.6                                                                                     | -        | -    | 162.0                                                                                       | -        | -   | -    | 155.4    | -          |     |  |  |
| 98.4                                                                                                                                                                                        | 162.0                                                                             | -        | -    | 156.5                                                                                     | -        | -    | 151.0                                                                                       | -        | -   | -    | 144.4    | -          |     |  |  |
| 111.5                                                                                                                                                                                       | 142.2                                                                             | -        | -    | 136.7                                                                                     | -        | -    | 132.3                                                                                       | -        | -   | -    | 126.8    | -          |     |  |  |
| 124.7                                                                                                                                                                                       | 125.7                                                                             | -        | -    | 121.3                                                                                     | -        | -    | 116.8                                                                                       | -        | -   | -    | 111.3    | -          |     |  |  |
| 137.8                                                                                                                                                                                       | 111.3                                                                             | -        | -    | 108.2                                                                                     | -        | -    | 104.3                                                                                       | -        | -   | -    | 99.2     | -          |     |  |  |
| 141.1                                                                                                                                                                                       | 108.1                                                                             | 76.9     | -    | 105.3                                                                                     | -        | -    | 101.6                                                                                       | -        | -   | -    | 96.5     | -          |     |  |  |
| 150.9                                                                                                                                                                                       | 98.3                                                                              | 69.0     | -    | 96.6                                                                                      | 65.7     | -    | 93.5                                                                                        | -        | -   | -    | 88.6     | -          |     |  |  |
| 157.5                                                                                                                                                                                       | 92.7                                                                              | 64.3     | -    | 90.8                                                                                      | 61.3     | -    | 88.6                                                                                        | 58.0     | -   | -    | 84.1     | -          |     |  |  |
| 164.0                                                                                                                                                                                       | 87.1                                                                              | 59.5     | -    | 85.1                                                                                      | 56.9     | -    | 84.0                                                                                        | 54.5     | -   | -    | 79.6     | -          |     |  |  |
| 167.3                                                                                                                                                                                       | 84.8                                                                              | 57.6     | -    | 82.7                                                                                      | 55.0     | -    | 81.6                                                                                        | 52.6     | -   | -    | 77.6     | 48.1       |     |  |  |
| 177.2                                                                                                                                                                                       | 77.8                                                                              | 51.8     | -    | 75.8                                                                                      | 49.2     | -    | 74.5                                                                                        | 47.2     | -   | -    | 71.7     | 43.7       |     |  |  |
| 190.3                                                                                                                                                                                       | 66.1*                                                                             | 45.4     | -    | 67.7                                                                                      | 42.5     | -    | 66.4                                                                                        | 40.6     | -   | -    | 64.8     | 38.4       |     |  |  |
| 193.6                                                                                                                                                                                       | 64.4*                                                                             | 44.0     | -    | 66.0                                                                                      | 41.2     | -    | 64.7                                                                                        | 39.2     | -   | -    | 63.2     | 37.0       |     |  |  |
| 200.1                                                                                                                                                                                       | -                                                                                 | 41.2     | 22.0 | 62.7                                                                                      | 38.4     | -    | 61.2                                                                                        | 36.4     | -   | -    | 59.9     | 34.4       |     |  |  |
| 203.4                                                                                                                                                                                       | -                                                                                 | 39.9     | 20.9 | 61.1                                                                                      | 37.0     | -    | 59.5                                                                                        | 35.1     | -   | -    | 58.2     | 33.1       |     |  |  |
| 210.0                                                                                                                                                                                       | -                                                                                 | 37.5     | 19.2 | 54.4*                                                                                     | 34.6     | 15.9 | 56.5                                                                                        | 32.6     | -   | -    | 55.0     | 30.6       |     |  |  |
| 213.3                                                                                                                                                                                       | -                                                                                 | 36.3     | 18.3 | 52.9*                                                                                     | 33.4     | 15.0 | 55.1                                                                                        | 31.4     | -   | -    | 53.4     | 29.4       |     |  |  |
| 216.5                                                                                                                                                                                       | -                                                                                 | 35.1     | 17.4 | -                                                                                         | 32.2     | 14.1 | 53.6                                                                                        | 30.2     | -   | -    | 51.8     | 28.2       |     |  |  |
| 229.7                                                                                                                                                                                       | -                                                                                 | 31.1     | 14.1 | -                                                                                         | 28.0     | 11.0 | 44.5*                                                                                       | 26.0     | -   | -    | 46.3     | 24.0       |     |  |  |
| 232.9                                                                                                                                                                                       | -                                                                                 | -        | 13.4 | -                                                                                         | 27.1     | 10.4 | 43.2*                                                                                       | 25.1     | -   | -    | 45.1     | 23.1       |     |  |  |
| 239.5                                                                                                                                                                                       | -                                                                                 | -        | 12.1 | -                                                                                         | 25.4     | 9.0  | -                                                                                           | 23.4     | -   | -    | 42.7     | 21.2       |     |  |  |
| 242.8                                                                                                                                                                                       | -                                                                                 | -        | 11.5 | -                                                                                         | 24.7     | -    | -                                                                                           | 22.5     | -   | -    | 41.4     | 20.3       |     |  |  |
| 249.3                                                                                                                                                                                       | -                                                                                 | -        | 10.4 | -                                                                                         | 23.1     | -    | -                                                                                           | 20.9     | -   | -    | 35.7*    | 18.6       |     |  |  |
| 252.6                                                                                                                                                                                       | -                                                                                 | -        | 9.8  | -                                                                                         | -        | -    | -                                                                                           | 20.2     | -   | -    | 34.8*    | 17.8       |     |  |  |
| 255.9                                                                                                                                                                                       | -                                                                                 | -        | 9.3  | -                                                                                         | -        | -    | -                                                                                           | 19.4     | -   | -    | -        | 17.0       |     |  |  |
| 265.7                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | -        | -    | -                                                                                           | 17.2     | -   | -    | -        | 14.8       |     |  |  |
| 269.0                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | -        | -    | -                                                                                           | -        | -   | -    | -        | 14.1       |     |  |  |
| 282.2                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | -        | -    | -                                                                                           | -        | -   | -    | -        | 11.7       |     |  |  |
| 285.4                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | -        | -    | -                                                                                           | -        | -   | -    | -        | 11.2       |     |  |  |

\* Main boom angle 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1

| 452,000 lb +  110,200 lb |                                                                                   |          |     |  27.6 ft |          |     |  32.2 ft/s |          |     | 360° |          | ASME B30.5 |     |  |  |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|-----|-------------------------------------------------------------------------------------------|----------|-----|----------------------------------------------------------------------------------------------|----------|-----|------|----------|------------|-----|--|--|
|  196.9 ft                |                                                                                   |          |     |                                                                                           |          |     |                                                                                              |          |     |      |          |            |     |  |  |
|                          |  | 255.9 ft |     |                                                                                           | 275.6 ft |     |                                                                                              | 295.3 ft |     |      | 315.0 ft |            |     |  |  |
|                                                                                                           |                                                                                   | SW_1     |     |                                                                                           |          |     |                                                                                              |          |     |      |          |            |     |  |  |
|                                                                                                           |                                                                                   | 87°/85°  | 75° | 65°                                                                                       | 87°/85°  | 75° | 65°                                                                                          | 87°/85°  | 75° | 65°  | 87°/85°  | 75°        | 65° |  |  |
| ft                                                                                                        |                                                                                   |          |     | 1,000 lb                                                                                  |          |     |                                                                                              |          |     |      |          |            |     |  |  |
| 82.0                                                                                                      | 142.2                                                                             | -        | -   | -                                                                                         | -        | -   | -                                                                                            | -        | -   | -    | -        | -          |     |  |  |
| 85.3                                                                                                      | 141.1                                                                             | -        | -   | 123.5                                                                                     | -        | -   | -                                                                                            | -        | -   | -    | -        | -          |     |  |  |
| 88.6                                                                                                      | 140.5                                                                             | -        | -   | 122.9                                                                                     | -        | -   | 106.3                                                                                        | -        | -   | -    | -        | -          |     |  |  |
| 91.9                                                                                                      | 140.0                                                                             | -        | -   | 122.4                                                                                     | -        | -   | 105.6                                                                                        | -        | -   | -    | -        | -          |     |  |  |
| 95.1                                                                                                      | 138.9                                                                             | -        | -   | 121.8                                                                                     | -        | -   | 105.2                                                                                        | -        | -   | 90.8 | -        | -          |     |  |  |
| 98.4                                                                                                      | 137.8                                                                             | -        | -   | 121.3                                                                                     | -        | -   | 104.7                                                                                        | -        | -   | 90.4 | -        | -          |     |  |  |
| 111.5                                                                                                     | 121.3                                                                             | -        | -   | 115.7                                                                                     | -        | -   | 102.5                                                                                        | -        | -   | 88.8 | -        | -          |     |  |  |
| 124.7                                                                                                     | 107.4                                                                             | -        | -   | 102.3                                                                                     | -        | -   | 98.1                                                                                         | -        | -   | 86.9 | -        | -          |     |  |  |
| 137.8                                                                                                     | 95.0                                                                              | -        | -   | 90.2                                                                                      | -        | -   | 86.4                                                                                         | -        | -   | 81.6 | -        | -          |     |  |  |
| 150.9                                                                                                     | 84.7                                                                              | -        | -   | 80.0                                                                                      | -        | -   | 76.3                                                                                         | -        | -   | 71.9 | -        | -          |     |  |  |
| 164.0                                                                                                     | 75.6                                                                              | -        | -   | 71.2                                                                                      | -        | -   | 67.7                                                                                         | -        | -   | 63.5 | -        | -          |     |  |  |
| 173.9                                                                                                     | 69.8                                                                              | 41.2     | -   | 65.6                                                                                      | -        | -   | 62.0                                                                                         | -        | -   | 57.9 | -        | -          |     |  |  |
| 177.2                                                                                                     | 67.9                                                                              | 39.9     | -   | 63.7                                                                                      | -        | -   | 60.2                                                                                         | -        | -   | 56.0 | -        | -          |     |  |  |
| 183.7                                                                                                     | 64.5                                                                              | 37.3     | -   | 60.3                                                                                      | 32.6     | -   | 56.9                                                                                         | -        | -   | 52.8 | -        | -          |     |  |  |
| 190.3                                                                                                     | 61.1                                                                              | 34.6     | -   | 56.9                                                                                      | 30.2     | -   | 53.6                                                                                         | 26.7     | -   | 49.6 | -        | -          |     |  |  |
| 200.1                                                                                                     | 56.6                                                                              | 31.3     | -   | 52.6                                                                                      | 26.9     | -   | 49.3                                                                                         | 23.4     | -   | 45.3 | 19.0     | -          |     |  |  |
| 203.4                                                                                                     | 55.1                                                                              | 30.2     | -   | 51.1                                                                                      | 25.8     | -   | 47.8                                                                                         | 22.3     | -   | 43.9 | 18.1     | -          |     |  |  |
| 216.5                                                                                                     | 49.8                                                                              | 26.0     | -   | 45.9                                                                                      | 21.8     | -   | 42.5                                                                                         | 18.5     | -   | 38.8 | 14.3     | -          |     |  |  |
| 229.7                                                                                                     | 44.5                                                                              | 22.0     | -   | 41.0                                                                                      | 18.3     | -   | 37.9                                                                                         | 15.0     | -   | 34.2 | 10.8     | -          |     |  |  |
| 236.2                                                                                                     | 42.0                                                                              | 20.2     | -   | 38.8                                                                                      | 16.5     | -   | 35.8                                                                                         | 13.4     | -   | 32.1 | 9.3      | -          |     |  |  |
| 242.8                                                                                                     | 39.5                                                                              | 18.3     | -   | 36.6                                                                                      | 14.8     | -   | 33.7                                                                                         | 11.9     | -   | 30.0 | -        | -          |     |  |  |
| 255.9                                                                                                     | 35.3                                                                              | 15.0     | -   | 32.2                                                                                      | 11.7     | -   | 30.0                                                                                         | 9.0      | -   | 26.2 | -        | -          |     |  |  |
| 265.7                                                                                                     | 32.4                                                                              | 12.8     | -   | 29.4                                                                                      | 9.5      | -   | 27.5                                                                                         | -        | -   | 23.8 | -        | -          |     |  |  |
| 269.0                                                                                                     | 28.2*                                                                             | 12.1     | -   | 28.4                                                                                      | -        | -   | 26.7                                                                                         | -        | -   | 22.9 | -        | -          |     |  |  |
| 272.3                                                                                                     | 27.3*                                                                             | 11.5     | -   | 27.6                                                                                      | -        | -   | 25.9                                                                                         | -        | -   | 22.2 | -        | -          |     |  |  |
| 282.2                                                                                                     | -                                                                                 | 9.5      | -   | 24.9                                                                                      | -        | -   | 23.4                                                                                         | -        | -   | 19.8 | -        | -          |     |  |  |
| 285.4                                                                                                     | -                                                                                 | 8.8      | -   | 21.1*                                                                                     | -        | -   | 22.6                                                                                         | -        | -   | 19.1 | -        | -          |     |  |  |
| 288.7                                                                                                     | -                                                                                 | -        | -   | 20.3*                                                                                     | -        | -   | 21.8                                                                                         | -        | -   | 18.4 | -        | -          |     |  |  |
| 295.3                                                                                                     | -                                                                                 | -        | -   | -                                                                                         | -        | -   | 20.3                                                                                         | -        | -   | 17.0 | -        | -          |     |  |  |
| 308.4                                                                                                     | -                                                                                 | -        | -   | -                                                                                         | -        | -   | 14.3*                                                                                        | -        | -   | 14.3 | -        | -          |     |  |  |
| 321.5                                                                                                     | -                                                                                 | -        | -   | -                                                                                         | -        | -   | -                                                                                            | -        | -   | 12.1 | -        | -          |     |  |  |

\* Main boom angle 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  452,000 lb +  110,200 lb |                                                                                   |         |      |  27.6 ft |         |          |     |  32.2 ft/s |      |      |          | 360° |      | ASME B30.5 |      |      |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|------|-------------------------------------------------------------------------------------------|---------|----------|-----|---------------------------------------------------------------------------------------------|------|------|----------|------|------|------------|------|------|--|
|  216.5 ft                                                                                                  |                                                                                   |         |      |                                                                                           |         |          |     |                                                                                             |      |      |          |      |      |            |      |      |  |
|                                                                                                            |  | 78.7 ft |      |                                                                                           | 98.4 ft |          |     | 118.1 ft                                                                                    |      |      | 137.8 ft |      |      | 157.5 ft   |      |      |  |
|                                                                                                                                                                                             |                                                                                   | SW_1    |      |                                                                                           |         |          |     |                                                                                             |      |      |          |      |      |            |      |      |  |
|                                                                                                                                                                                             |                                                                                   | 87°/85° | 75°  | 65°                                                                                       | 87°/85° | 75°      | 65° | 87°/85°                                                                                     | 75°  | 65°  | 87°/85°  | 75°  | 65°  | 87°/85°    | 75°  | 65°  |  |
| ft                                                                                                                                                                                          |                                                                                   |         |      |                                                                                           |         | 1,000 lb |     |                                                                                             |      |      |          |      |      |            |      |      |  |
| 42.7                                                                                                                                                                                        | 405.7                                                                             | -       | -    | -                                                                                         | -       | -        | -   | -                                                                                           | -    | -    | -        | -    | -    | -          | -    | -    |  |
| 45.9                                                                                                                                                                                        | 379.2                                                                             | -       | -    | -                                                                                         | -       | -        | -   | -                                                                                           | -    | -    | -        | -    | -    | -          | -    | -    |  |
| 49.2                                                                                                                                                                                        | 357.1                                                                             | -       | -    | 343.9                                                                                     | -       | -        | -   | -                                                                                           | -    | -    | -        | -    | -    | -          | -    | -    |  |
| 52.5                                                                                                                                                                                        | 339.5                                                                             | -       | -    | 326.3                                                                                     | -       | -        | -   | 313.1                                                                                       | -    | -    | -        | -    | -    | -          | -    | -    |  |
| 55.8                                                                                                                                                                                        | 319.7                                                                             | -       | -    | 308.6                                                                                     | -       | -        | -   | 297.6                                                                                       | -    | -    | 286.6    | -    | -    | -          | -    | -    |  |
| 59.1                                                                                                                                                                                        | 304.2                                                                             | -       | -    | 293.2                                                                                     | -       | -        | -   | 282.2                                                                                       | -    | -    | 273.4    | -    | -    | 262.4      | -    | -    |  |
| 65.6                                                                                                                                                                                        | 277.8                                                                             | -       | -    | 266.8                                                                                     | -       | -        | -   | 257.9                                                                                       | -    | -    | 249.1    | -    | -    | 238.1      | -    | -    |  |
| 72.2                                                                                                                                                                                        | 253.5                                                                             | -       | -    | 244.7                                                                                     | -       | -        | -   | 235.9                                                                                       | -    | -    | 229.3    | -    | -    | 219.4      | -    | -    |  |
| 78.7                                                                                                                                                                                        | 233.7                                                                             | -       | -    | 224.9                                                                                     | -       | -        | -   | 217.2                                                                                       | -    | -    | 210.5    | -    | -    | 201.7      | -    | -    |  |
| 85.3                                                                                                                                                                                        | 218.3                                                                             | -       | -    | 209.4                                                                                     | -       | -        | -   | 201.7                                                                                       | -    | -    | 195.1    | -    | -    | 187.4      | -    | -    |  |
| 91.9                                                                                                                                                                                        | 201.7                                                                             | -       | -    | 195.1                                                                                     | -       | -        | -   | 187.4                                                                                       | -    | -    | 181.9    | -    | -    | 174.2      | -    | -    |  |
| 98.4                                                                                                                                                                                        | 176.4*                                                                            | -       | -    | 181.9                                                                                     | -       | -        | -   | 175.3                                                                                       | -    | -    | 169.8    | -    | -    | 162.0      | -    | -    |  |
| 101.7                                                                                                                                                                                       | 168.7*                                                                            | -       | -    | 174.7                                                                                     | -       | -        | -   | 169.5                                                                                       | -    | -    | 164.8    | -    | -    | 157.1      | -    | -    |  |
| 105.0                                                                                                                                                                                       | -                                                                                 | 127.9   | -    | 167.6                                                                                     | -       | -        | -   | 163.7                                                                                       | -    | -    | 159.8    | -    | -    | 152.1      | -    | -    |  |
| 111.5                                                                                                                                                                                       | -                                                                                 | 116.8   | -    | 153.2                                                                                     | -       | -        | -   | 152.1                                                                                       | -    | -    | 149.9    | -    | -    | 142.2      | -    | -    |  |
| 114.8                                                                                                                                                                                       | -                                                                                 | 112.7   | -    | 141.5*                                                                                    | 109.1   | -        | -   | 146.9                                                                                       | -    | -    | 145.0    | -    | -    | 138.3      | -    | -    |  |
| 121.4                                                                                                                                                                                       | -                                                                                 | 104.4   | -    | 131.2*                                                                                    | 100.6   | -        | -   | 136.4                                                                                       | 98.3 | -    | 135.0    | -    | -    | 130.6      | -    | -    |  |
| 124.7                                                                                                                                                                                       | -                                                                                 | 100.3   | -    | -                                                                                         | 96.3    | -        | -   | 131.2                                                                                       | 94.4 | -    | 130.1    | -    | -    | 126.8      | -    | -    |  |
| 131.2                                                                                                                                                                                       | -                                                                                 | 93.6    | -    | -                                                                                         | 89.5    | -        | -   | 122.4                                                                                       | 87.5 | -    | 121.8    | 85.5 | -    | 118.5      | -    | -    |  |
| 137.8                                                                                                                                                                                       | -                                                                                 | 86.9    | -    | -                                                                                         | 82.7    | -        | -   | 109.1*                                                                                      | 80.7 | -    | 113.5    | 79.1 | -    | 110.2      | 75.0 | -    |  |
| 141.1                                                                                                                                                                                       | -                                                                                 | -       | -    | -                                                                                         | 80.0    | -        | -   | 105.6*                                                                                      | 77.8 | -    | 110.2    | 76.1 | -    | 107.0      | 72.2 | -    |  |
| 150.9                                                                                                                                                                                       | -                                                                                 | -       | -    | -                                                                                         | 72.1    | -        | -   | -                                                                                           | 69.7 | -    | 100.3    | 68.1 | -    | 97.2       | 63.9 | -    |  |
| 154.2                                                                                                                                                                                       | -                                                                                 | -       | 48.1 | -                                                                                         | 69.7    | -        | -   | -                                                                                           | 67.5 | -    | 92.3*    | 65.9 | -    | 94.5       | 61.7 | -    |  |
| 157.5                                                                                                                                                                                       | -                                                                                 | -       | 46.4 | -                                                                                         | 67.7    | -        | -   | -                                                                                           | 65.3 | -    | 89.5*    | 63.7 | -    | 91.7       | 59.5 | -    |  |
| 164.0                                                                                                                                                                                       | -                                                                                 | -       | 43.2 | -                                                                                         | -       | 38.6     | -   | -                                                                                           | 60.8 | -    | -        | 59.3 | -    | 86.2       | 55.1 | -    |  |
| 173.9                                                                                                                                                                                       | -                                                                                 | -       | 39.0 | -                                                                                         | -       | 34.6     | -   | -                                                                                           | 55.7 | -    | -        | 53.8 | -    | 74.9*      | 49.7 | -    |  |
| 177.2                                                                                                                                                                                       | -                                                                                 | -       | -    | -                                                                                         | -       | 33.3     | -   | -                                                                                           | 54.0 | 30.6 | -        | 52.0 | -    | 72.8*      | 47.8 | -    |  |
| 187.0                                                                                                                                                                                       | -                                                                                 | -       | -    | -                                                                                         | -       | 29.9     | -   | -                                                                                           | -    | 27.2 | -        | 47.4 | 25.1 | -          | 43.1 | -    |  |
| 190.3                                                                                                                                                                                       | -                                                                                 | -       | -    | -                                                                                         | -       | 28.9     | -   | -                                                                                           | -    | 26.0 | -        | 45.9 | 24.0 | -          | 41.7 | -    |  |
| 193.6                                                                                                                                                                                       | -                                                                                 | -       | -    | -                                                                                         | -       | 28.0     | -   | -                                                                                           | -    | 25.1 | -        | 44.6 | 23.0 | -          | 40.4 | -    |  |
| 196.9                                                                                                                                                                                       | -                                                                                 | -       | -    | -                                                                                         | -       | -        | -   | -                                                                                           | -    | 24.1 | -        | 43.4 | 22.0 | -          | 39.1 | 17.4 |  |
| 203.4                                                                                                                                                                                       | -                                                                                 | -       | -    | -                                                                                         | -       | -        | -   | -                                                                                           | -    | 22.3 | -        | -    | 20.1 | -          | 36.6 | 15.4 |  |
| 213.3                                                                                                                                                                                       | -                                                                                 | -       | -    | -                                                                                         | -       | -        | -   | -                                                                                           | -    | 20.1 | -        | -    | 17.6 | -          | 33.5 | 13.1 |  |
| 216.5                                                                                                                                                                                       | -                                                                                 | -       | -    | -                                                                                         | -       | -        | -   | -                                                                                           | -    | -    | -        | -    | 17.0 | -          | 32.4 | 12.3 |  |
| 229.7                                                                                                                                                                                       | -                                                                                 | -       | -    | -                                                                                         | -       | -        | -   | -                                                                                           | -    | -    | -        | -    | 14.6 | -          | -    | 9.5  |  |
| 232.9                                                                                                                                                                                       | -                                                                                 | -       | -    | -                                                                                         | -       | -        | -   | -                                                                                           | -    | -    | -        | -    | 14.1 | -          | -    | 9.0  |  |

\* Main boom angle 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  452,000 lb +  110,200 lb |                                                                                   |          |      |  27.6 ft |          |     |  32.2 ft/s |          |     | 360°  |          | ASME B30.5 |     |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|------|-------------------------------------------------------------------------------------------|----------|-----|----------------------------------------------------------------------------------------------|----------|-----|-------|----------|------------|-----|--|
|  216.5 ft                                                                                                  |                                                                                   |          |      |                                                                                           |          |     |                                                                                              |          |     |       |          |            |     |  |
|                                                                                                            |  | 177.2 ft |      |                                                                                           | 196.9 ft |     |                                                                                              | 216.5 ft |     |       | 236.2 ft |            |     |  |
|                                                                                                                                                                                             |                                                                                   | SW_1     |      |                                                                                           |          |     |                                                                                              |          |     |       |          |            |     |  |
|                                                                                                                                                                                             |                                                                                   | 87°/85°  | 75°  | 65°                                                                                       | 87°/85°  | 75° | 65°                                                                                          | 87°/85°  | 75° | 65°   | 87°/85°  | 75°        | 65° |  |
| ft                                                                                                                                                                                          |                                                                                   | 1,000 lb |      |                                                                                           |          |     |                                                                                              |          |     |       |          |            |     |  |
| 65.6                                                                                                                                                                                        | 224.9                                                                             | -        | -    | -                                                                                         | -        | -   | -                                                                                            | -        | -   | -     | -        | -          |     |  |
| 68.9                                                                                                                                                                                        | 218.3                                                                             | -        | -    | 198.4                                                                                     | -        | -   | -                                                                                            | -        | -   | -     | -        | -          |     |  |
| 72.2                                                                                                                                                                                        | 211.6                                                                             | -        | -    | 196.2                                                                                     | -        | -   | 173.1                                                                                        | -        | -   | -     | -        | -          |     |  |
| 78.7                                                                                                                                                                                        | 195.1                                                                             | -        | -    | 188.5                                                                                     | -        | -   | 169.8                                                                                        | -        | -   | 147.7 | -        | -          |     |  |
| 85.3                                                                                                                                                                                        | 180.8                                                                             | -        | -    | 174.2                                                                                     | -        | -   | 167.6                                                                                        | -        | -   | 145.5 | -        | -          |     |  |
| 91.9                                                                                                                                                                                        | 167.6                                                                             | -        | -    | 162.0                                                                                     | -        | -   | 156.5                                                                                        | -        | -   | 143.3 | -        | -          |     |  |
| 98.4                                                                                                                                                                                        | 156.5                                                                             | -        | -    | 151.0                                                                                     | -        | -   | 145.5                                                                                        | -        | -   | 140.0 | -        | -          |     |  |
| 111.5                                                                                                                                                                                       | 137.8                                                                             | -        | -    | 132.3                                                                                     | -        | -   | 127.9                                                                                        | -        | -   | 122.4 | -        | -          |     |  |
| 124.7                                                                                                                                                                                       | 122.4                                                                             | -        | -    | 116.8                                                                                     | -        | -   | 112.4                                                                                        | -        | -   | 107.8 | -        | -          |     |  |
| 137.8                                                                                                                                                                                       | 109.6                                                                             | -        | -    | 104.7                                                                                     | -        | -   | 100.8                                                                                        | -        | -   | 95.7  | -        | -          |     |  |
| 147.6                                                                                                                                                                                       | 100.5                                                                             | 65.9     | -    | 96.6                                                                                      | -        | -   | 92.6                                                                                         | -        | -   | 88.1  | -        | -          |     |  |
| 150.9                                                                                                                                                                                       | 97.4                                                                              | 63.9     | -    | 93.9                                                                                      | -        | -   | 90.2                                                                                         | -        | -   | 85.5  | -        | -          |     |  |
| 157.5                                                                                                                                                                                       | 91.8                                                                              | 59.5     | -    | 89.3                                                                                      | 55.6     | -   | 85.6                                                                                         | -        | -   | 81.1  | -        | -          |     |  |
| 164.0                                                                                                                                                                                       | 86.2                                                                              | 55.1     | -    | 84.4                                                                                      | 52.2     | -   | 81.1                                                                                         | 48.5     | -   | 76.7  | -        | -          |     |  |
| 173.9                                                                                                                                                                                       | 79.1                                                                              | 49.5     | -    | 77.3                                                                                      | 46.6     | -   | 75.3                                                                                         | 44.2     | -   | 70.9  | 39.5     | -          |     |  |
| 177.2                                                                                                                                                                                       | 76.9                                                                              | 47.6     | -    | 75.0                                                                                      | 44.8     | -   | 73.4                                                                                         | 42.8     | -   | 69.0  | 38.1     | -          |     |  |
| 190.3                                                                                                                                                                                       | 69.2                                                                              | 41.2     | -    | 67.0                                                                                      | 38.6     | -   | 65.7                                                                                         | 36.6     | -   | 62.4  | 33.1     | -          |     |  |
| 196.9                                                                                                                                                                                       | 61.5*                                                                             | 38.6     | -    | 63.6                                                                                      | 35.9     | -   | 62.3                                                                                         | 34.0     | -   | 59.3  | 30.9     | -          |     |  |
| 203.4                                                                                                                                                                                       | -                                                                                 | 35.9     | -    | 60.2                                                                                      | 33.3     | -   | 58.9                                                                                         | 31.3     | -   | 56.4  | 28.9     | -          |     |  |
| 210.0                                                                                                                                                                                       | -                                                                                 | 33.7     | 13.2 | 53.1*                                                                                     | 31.0     | -   | 55.8                                                                                         | 29.0     | -   | 53.8  | 26.8     | -          |     |  |
| 216.5                                                                                                                                                                                       | -                                                                                 | 31.5     | 11.7 | 50.3*                                                                                     | 28.7     | -   | 52.7                                                                                         | 26.7     | -   | 51.1  | 24.7     | -          |     |  |
| 226.4                                                                                                                                                                                       | -                                                                                 | 28.5     | 9.5  | -                                                                                         | 25.7     | -   | 48.7                                                                                         | 23.7     | -   | 46.8  | 21.6     | -          |     |  |
| 229.7                                                                                                                                                                                       | -                                                                                 | 27.6     | -    | -                                                                                         | 24.7     | -   | 43.2*                                                                                        | 22.7     | -   | 45.4  | 20.5     | -          |     |  |
| 232.9                                                                                                                                                                                       | -                                                                                 | 26.9     | -    | -                                                                                         | 23.9     | -   | 42.1*                                                                                        | 21.8     | -   | 44.3  | 19.6     | -          |     |  |
| 236.2                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | 23.0     | -   | 41.0*                                                                                        | 20.9     | -   | 43.1  | 18.7     | -          |     |  |
| 242.8                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | 21.4     | -   | -                                                                                            | 19.2     | -   | 40.8  | 17.0     | -          |     |  |
| 252.6                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | 19.2     | -   | -                                                                                            | 16.9     | -   | 33.7* | 14.7     | -          |     |  |
| 255.9                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | -        | -   | -                                                                                            | 16.1     | -   | -     | 13.9     | -          |     |  |
| 269.0                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | -        | -   | -                                                                                            | 13.7     | -   | -     | 11.2     | -          |     |  |
| 272.3                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | -        | -   | -                                                                                            | 13.0     | -   | -     | 10.6     | -          |     |  |
| 282.2                                                                                                                                                                                       | -                                                                                 | -        | -    | -                                                                                         | -        | -   | -                                                                                            | -        | -   | -     | 8.8      | -          |     |  |

\* Main boom angle 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1



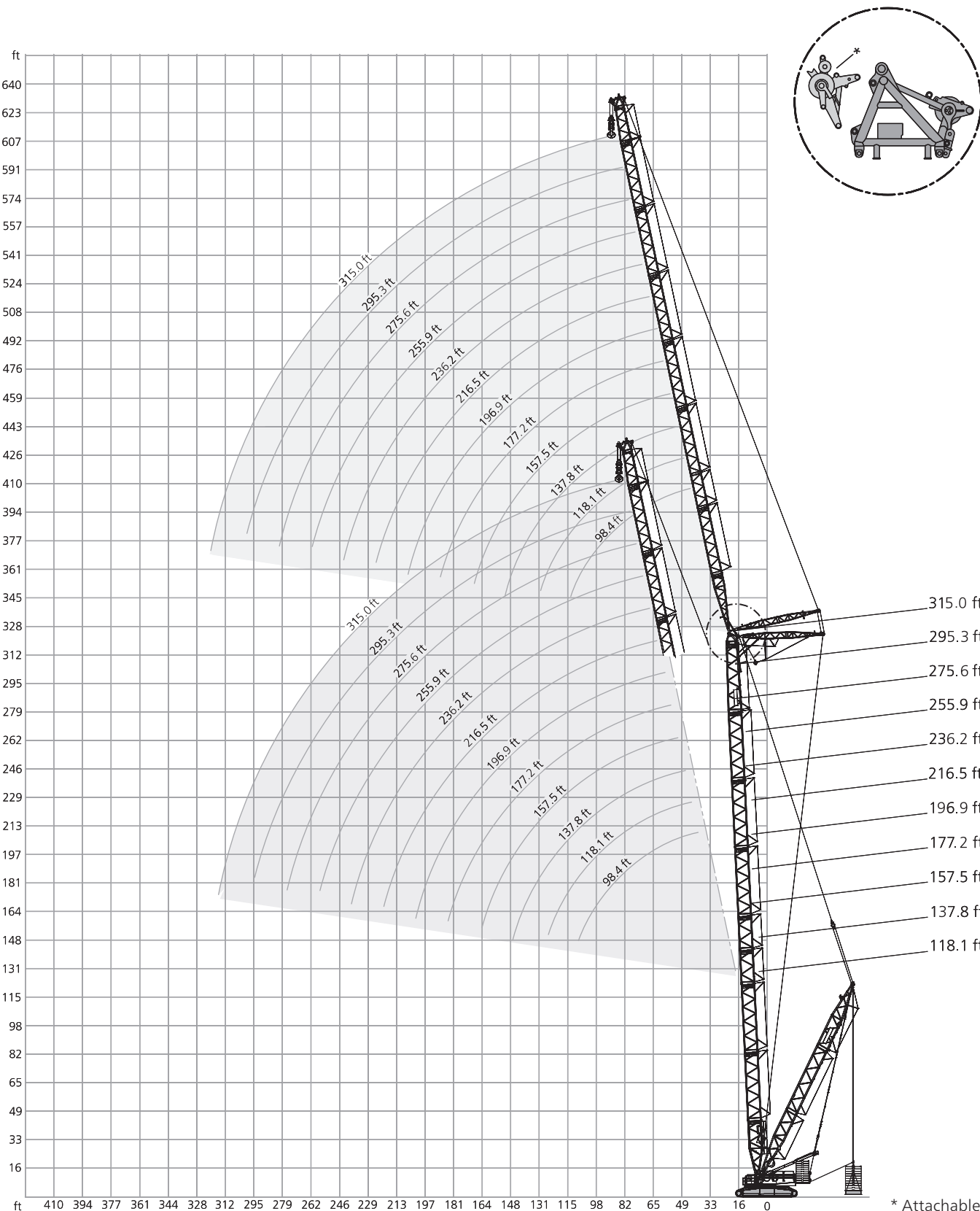
|  452,000 lb +  110,200 lb |                                                                                   |          |     |  27.6 ft |          |     |  32.2 ft/s |          |     | 360° |          | ASME B30.5 |     |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|-----|-------------------------------------------------------------------------------------------|----------|-----|---------------------------------------------------------------------------------------------|----------|-----|------|----------|------------|-----|--|
|  216.5 ft                                                                                                  |                                                                                   |          |     |                                                                                           |          |     |                                                                                             |          |     |      |          |            |     |  |
|                                                                                                            |  | 255.9 ft |     |                                                                                           | 275.6 ft |     |                                                                                             | 295.3 ft |     |      | 315.0 ft |            |     |  |
|                                                                                                                                                                                             |                                                                                   | SW_1     |     |                                                                                           |          |     |                                                                                             |          |     |      |          |            |     |  |
|                                                                                                                                                                                             |                                                                                   | 87°/85°  | 75° | 65°                                                                                       | 87°/85°  | 75° | 65°                                                                                         | 87°/85°  | 75° | 65°  | 87°/85°  | 75°        | 65° |  |
| ft                                                                                                                                                                                          |                                                                                   | 1,000 lb |     |                                                                                           |          |     |                                                                                             |          |     |      |          |            |     |  |
| 82.0                                                                                                                                                                                        | 127.9                                                                             | -        | -   | -                                                                                         | -        | -   | -                                                                                           | -        | -   | -    | -        | -          |     |  |
| 85.3                                                                                                                                                                                        | 126.8                                                                             | -        | -   | 110.2                                                                                     | -        | -   | -                                                                                           | -        | -   | -    | -        | -          |     |  |
| 91.9                                                                                                                                                                                        | 125.7                                                                             | -        | -   | 110.0                                                                                     | -        | -   | 95.0                                                                                        | -        | -   | -    | -        | -          |     |  |
| 95.1                                                                                                                                                                                        | 124.6                                                                             | -        | -   | 109.3                                                                                     | -        | -   | 94.5                                                                                        | -        | -   | 81.4 | -        | -          |     |  |
| 98.4                                                                                                                                                                                        | 123.5                                                                             | -        | -   | 108.7                                                                                     | -        | -   | 93.9                                                                                        | -        | -   | 80.9 | -        | -          |     |  |
| 111.5                                                                                                                                                                                       | 116.8                                                                             | -        | -   | 106.0                                                                                     | -        | -   | 91.9                                                                                        | -        | -   | 79.4 | -        | -          |     |  |
| 124.7                                                                                                                                                                                       | 103.4                                                                             | -        | -   | 98.3                                                                                      | -        | -   | 89.3                                                                                        | -        | -   | 77.4 | -        | -          |     |  |
| 137.8                                                                                                                                                                                       | 91.5                                                                              | -        | -   | 86.9                                                                                      | -        | -   | 82.9                                                                                        | -        | -   | 75.4 | -        | -          |     |  |
| 150.9                                                                                                                                                                                       | 81.6                                                                              | -        | -   | 76.9                                                                                      | -        | -   | 73.2                                                                                        | -        | -   | 68.8 | -        | -          |     |  |
| 164.0                                                                                                                                                                                       | 73.0                                                                              | -        | -   | 68.3                                                                                      | -        | -   | 65.0                                                                                        | -        | -   | 60.6 | -        | -          |     |  |
| 177.2                                                                                                                                                                                       | 65.5                                                                              | -        | -   | 61.1                                                                                      | -        | -   | 57.5                                                                                        | -        | -   | 53.4 | -        | -          |     |  |
| 180.4                                                                                                                                                                                       | 63.7                                                                              | 33.1     | -   | 59.5                                                                                      | -        | -   | 55.9                                                                                        | -        | -   | 51.8 | -        | -          |     |  |
| 190.3                                                                                                                                                                                       | 58.6                                                                              | 29.5     | -   | 54.7                                                                                      | 24.9     | -   | 51.1                                                                                        | -        | -   | 47.2 | -        | -          |     |  |
| 196.9                                                                                                                                                                                       | 55.8                                                                              | 27.3     | -   | 51.7                                                                                      | 22.8     | -   | 48.4                                                                                        | 19.4     | -   | 44.4 | -        | -          |     |  |
| 203.4                                                                                                                                                                                       | 52.9                                                                              | 25.1     | -   | 48.7                                                                                      | 20.7     | -   | 45.6                                                                                        | 17.4     | -   | 41.7 | -        | -          |     |  |
| 206.7                                                                                                                                                                                       | 51.6                                                                              | 24.2     | -   | 47.5                                                                                      | 19.8     | -   | 44.3                                                                                        | 16.5     | -   | 40.4 | 12.1     | -          |     |  |
| 216.5                                                                                                                                                                                       | 47.8                                                                              | 21.4     | -   | 43.7                                                                                      | 17.2     | -   | 40.6                                                                                        | 13.9     | -   | 36.6 | 9.5      | -          |     |  |
| 229.7                                                                                                                                                                                       | 43.2                                                                              | 18.1     | -   | 39.2                                                                                      | 13.9     | -   | 36.2                                                                                        | 10.6     | -   | 32.2 | -        | -          |     |  |
| 236.2                                                                                                                                                                                       | 41.0                                                                              | 16.5     | -   | 37.1                                                                                      | 12.3     | -   | 34.1                                                                                        | 9.0      | -   | 30.2 | -        | -          |     |  |
| 242.8                                                                                                                                                                                       | 38.8                                                                              | 15.0     | -   | 35.1                                                                                      | 10.8     | -   | 32.0                                                                                        | -        | -   | 28.2 | -        | -          |     |  |
| 249.3                                                                                                                                                                                       | 36.7                                                                              | 13.4     | -   | 33.2                                                                                      | 9.5      | -   | 30.1                                                                                        | -        | -   | 26.2 | -        | -          |     |  |
| 255.9                                                                                                                                                                                       | 34.6                                                                              | 11.9     | -   | 31.3                                                                                      | -        | -   | 28.2                                                                                        | -        | -   | 24.5 | -        | -          |     |  |
| 269.0                                                                                                                                                                                       | 27.1*                                                                             | 9.3      | -   | 27.8                                                                                      | -        | -   | 24.9                                                                                        | -        | -   | 21.2 | -        | -          |     |  |
| 272.3                                                                                                                                                                                       | 26.2*                                                                             | -        | -   | 27.0                                                                                      | -        | -   | 24.2                                                                                        | -        | -   | 20.4 | -        | -          |     |  |
| 282.2                                                                                                                                                                                       | -                                                                                 | -        | -   | 24.5                                                                                      | -        | -   | 22.0                                                                                        | -        | -   | 18.3 | -        | -          |     |  |
| 292.0                                                                                                                                                                                       | -                                                                                 | -        | -   | 18.5*                                                                                     | -        | -   | 19.9                                                                                        | -        | -   | 16.1 | -        | -          |     |  |
| 295.3                                                                                                                                                                                       | -                                                                                 | -        | -   | -                                                                                         | -        | -   | 19.2                                                                                        | -        | -   | 15.4 | -        | -          |     |  |
| 308.4                                                                                                                                                                                       | -                                                                                 | -        | -   | -                                                                                         | -        | -   | 13.2*                                                                                       | -        | -   | 13.0 | -        | -          |     |  |
| 311.7                                                                                                                                                                                       | -                                                                                 | -        | -   | -                                                                                         | -        | -   | 12.8*                                                                                       | -        | -   | 12.5 | -        | -          |     |  |
| 321.5                                                                                                                                                                                       | -                                                                                 | -        | -   | -                                                                                         | -        | -   | -                                                                                           | -        | -   | 10.8 | -        | -          |     |  |

\* Main boom angle 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|                                                                                                                                                                                                                                                                             |       |          |      |                                                                                           |      |                                                                                             |   |      |   |            |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|------|-------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------|---|------|---|------------|---|
|  452,000 lb +  110,200 lb                                                                                 |       |          |      |  27.6 ft |      |  32.2 ft/s |   | 360° |   | ASME B30.5 |   |
|  236.2 ft                                                                                                                                                                                  |       |          |      |                                                                                           |      |                                                                                             |   |      |   |            |   |
|   <div><div>137.8 ft</div><div>157.5 ft</div><div>SW_1</div></div>                                        |       |          |      |                                                                                           |      |                                                                                             |   |      |   |            |   |
|   <div><div>87°/85°</div><div>75°</div><div>65°</div><div>87°/85°</div><div>75°</div><div>65°</div></div> |       |          |      |                                                                                           |      |                                                                                             |   |      |   |            |   |
| ft                                                                                                                                                                                                                                                                          |       | 1,000 lb |      |                                                                                           |      |                                                                                             |   |      |   |            |   |
| 59.1                                                                                                                                                                                                                                                                        | 262.4 | -        | -    | -                                                                                         | -    | -                                                                                           | - | -    | - | -          | - |
| 62.3                                                                                                                                                                                                                                                                        | 251.3 | -        | -    | 231.5                                                                                     | -    | -                                                                                           | - | -    | - | -          | - |
| 65.6                                                                                                                                                                                                                                                                        | 240.3 | -        | -    | 229.3                                                                                     | -    | -                                                                                           | - | -    | - | -          | - |
| 72.2                                                                                                                                                                                                                                                                        | 220.5 | -        | -    | 210.5                                                                                     | -    | -                                                                                           | - | -    | - | -          | - |
| 78.7                                                                                                                                                                                                                                                                        | 202.8 | -        | -    | 194.0                                                                                     | -    | -                                                                                           | - | -    | - | -          | - |
| 85.3                                                                                                                                                                                                                                                                        | 188.5 | -        | -    | 179.7                                                                                     | -    | -                                                                                           | - | -    | - | -          | - |
| 91.9                                                                                                                                                                                                                                                                        | 175.3 | -        | -    | 167.6                                                                                     | -    | -                                                                                           | - | -    | - | -          | - |
| 98.4                                                                                                                                                                                                                                                                        | 164.2 | -        | -    | 156.5                                                                                     | -    | -                                                                                           | - | -    | - | -          | - |
| 111.5                                                                                                                                                                                                                                                                       | 144.4 | -        | -    | 137.8                                                                                     | -    | -                                                                                           | - | -    | - | -          | - |
| 124.7                                                                                                                                                                                                                                                                       | 129.0 | -        | -    | 122.4                                                                                     | -    | -                                                                                           | - | -    | - | -          | - |
| 137.8                                                                                                                                                                                                                                                                       | 112.4 | 72.5     | -    | 109.8                                                                                     | -    | -                                                                                           | - | -    | - | -          | - |
| 144.4                                                                                                                                                                                                                                                                       | 105.7 | 67.2     | -    | 103.0                                                                                     | 62.8 | -                                                                                           | - | -    | - | -          | - |
| 150.9                                                                                                                                                                                                                                                                       | 99.0  | 61.9     | -    | 96.1                                                                                      | 58.0 | -                                                                                           | - | -    | - | -          | - |
| 160.8                                                                                                                                                                                                                                                                       | 85.3* | 55.7     | -    | 87.9                                                                                      | 51.5 | -                                                                                           | - | -    | - | -          | - |
| 164.0                                                                                                                                                                                                                                                                       | -     | 53.6     | -    | 85.1                                                                                      | 49.4 | -                                                                                           | - | -    | - | -          | - |
| 177.2                                                                                                                                                                                                                                                                       | -     | 46.5     | -    | 71.0*                                                                                     | 42.5 | -                                                                                           | - | -    | - | -          | - |
| 180.4                                                                                                                                                                                                                                                                       | -     | 45.1     | -    | 69.2*                                                                                     | 41.1 | -                                                                                           | - | -    | - | -          | - |
| 190.3                                                                                                                                                                                                                                                                       | -     | 40.8     | -    | -                                                                                         | 36.6 | -                                                                                           | - | -    | - | -          | - |
| 196.9                                                                                                                                                                                                                                                                       | -     | 38.6     | 14.3 | -                                                                                         | 34.2 | -                                                                                           | - | -    | - | -          | - |
| 200.1                                                                                                                                                                                                                                                                       | -     | 37.5     | 13.6 | -                                                                                         | 33.0 | -                                                                                           | - | -    | - | -          | - |
| 203.4                                                                                                                                                                                                                                                                       | -     | -        | 12.8 | -                                                                                         | 31.7 | -                                                                                           | - | -    | - | -          | - |
| 216.5                                                                                                                                                                                                                                                                       | -     | -        | 9.9  | -                                                                                         | 27.8 | -                                                                                           | - | -    | - | -          | - |
| 219.8                                                                                                                                                                                                                                                                       | -     | -        | 9.3  | -                                                                                         | 26.9 | -                                                                                           | - | -    | - | -          | - |

| 236.2 ft                                                                            |                                                                                              |      |     |                                                                                              |      |     |                                                                                              |      |     |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------|-----|----------------------------------------------------------------------------------------------|------|-----|----------------------------------------------------------------------------------------------|------|-----|
|  |  177.2 ft |      |     |  196.9 ft |      |     |  216.5 ft |      |     |
|                                                                                     |  SW_1     |      |     |                                                                                              |      |     |                                                                                              |      |     |
|                                                                                     |  87°/85°  | 75°  | 65° | 87°/85°                                                                                      | 75°  | 65° | 87°/85°                                                                                      | 75°  | 65° |
| ft                                                                                  |                                                                                              |      |     | 1,000 lb                                                                                     |      |     |                                                                                              |      |     |
| 65.6                                                                                | 205.0                                                                                        | -    | -   | -                                                                                            | -    | -   | -                                                                                            | -    | -   |
| 68.9                                                                                | 202.8                                                                                        | -    | -   | 179.7                                                                                        | -    | -   | -                                                                                            | -    | -   |
| 72.2                                                                                | 200.6                                                                                        | -    | -   | 178.6                                                                                        | -    | -   | -                                                                                            | -    | -   |
| 75.5                                                                                | 194.0                                                                                        | -    | -   | 176.9                                                                                        | -    | -   | 153.2                                                                                        | -    | -   |
| 78.7                                                                                | 187.4                                                                                        | -    | -   | 175.3                                                                                        | -    | -   | 152.1                                                                                        | -    | -   |
| 85.3                                                                                | 174.2                                                                                        | -    | -   | 167.6                                                                                        | -    | -   | 149.9                                                                                        | -    | -   |
| 91.9                                                                                | 162.0                                                                                        | -    | -   | 155.4                                                                                        | -    | -   | 146.6                                                                                        | -    | -   |
| 98.4                                                                                | 151.0                                                                                        | -    | -   | 145.5                                                                                        | -    | -   | 140.0                                                                                        | -    | -   |
| 111.5                                                                               | 132.3                                                                                        | -    | -   | 126.8                                                                                        | -    | -   | 122.4                                                                                        | -    | -   |
| 124.7                                                                               | 117.9                                                                                        | -    | -   | 112.4                                                                                        | -    | -   | 108.7                                                                                        | -    | -   |
| 137.8                                                                               | 105.6                                                                                        | -    | -   | 100.8                                                                                        | -    | -   | 96.8                                                                                         | -    | -   |
| 150.9                                                                               | 95.2                                                                                         | -    | -   | 90.6                                                                                         | -    | -   | 86.9                                                                                         | -    | -   |
| 154.2                                                                               | 92.8                                                                                         | 54.7 | -   | 88.4                                                                                         | -    | -   | 84.7                                                                                         | -    | -   |
| 160.8                                                                               | 87.8                                                                                         | 51.1 | -   | 84.0                                                                                         | 46.7 | -   | 80.2                                                                                         | -    | -   |
| 164.0                                                                               | 85.3                                                                                         | 49.4 | -   | 81.8                                                                                         | 45.2 | -   | 78.0                                                                                         | -    | -   |
| 170.6                                                                               | 80.7                                                                                         | 46.0 | -   | 77.9                                                                                         | 42.4 | -   | 74.3                                                                                         | 38.8 | -   |
| 177.2                                                                               | 76.1                                                                                         | 42.5 | -   | 74.1                                                                                         | 39.7 | -   | 70.5                                                                                         | 36.4 | -   |
| 190.3                                                                               | 68.3                                                                                         | 36.6 | -   | 66.1                                                                                         | 33.7 | -   | 63.9                                                                                         | 31.7 | -   |
| 196.9                                                                               | 60.2*                                                                                        | 34.1 | -   | 62.8                                                                                         | 31.2 | -   | 61.0                                                                                         | 29.2 | -   |
| 203.4                                                                               | -                                                                                            | 31.5 | -   | 59.5                                                                                         | 28.7 | -   | 58.0                                                                                         | 26.7 | -   |
| 216.5                                                                               | -                                                                                            | 27.1 | -   | 48.7*                                                                                        | 24.3 | -   | 51.8                                                                                         | 22.3 | -   |
| 229.7                                                                               | -                                                                                            | 23.6 | -   | -                                                                                            | 20.5 | -   | 46.5                                                                                         | 18.5 | -   |
| 236.2                                                                               | -                                                                                            | 22.0 | -   | -                                                                                            | 19.0 | -   | 39.5*                                                                                        | 17.0 | -   |
| 239.5                                                                               | -                                                                                            | 21.2 | -   | -                                                                                            | 18.2 | -   | -                                                                                            | 16.2 | -   |
| 242.8                                                                               | -                                                                                            | -    | -   | -                                                                                            | 17.4 | -   | -                                                                                            | 15.4 | -   |
| 255.9                                                                               | -                                                                                            | -    | -   | -                                                                                            | 14.8 | -   | -                                                                                            | 12.6 | -   |
| 259.2                                                                               | -                                                                                            | -    | -   | -                                                                                            | 14.1 | -   | -                                                                                            | 12.0 | -   |
| 269.0                                                                               | -                                                                                            | -    | -   | -                                                                                            | -    | -   | -                                                                                            | 10.1 | -   |
| 275.6                                                                               | -                                                                                            | -    | -   | -                                                                                            | -    | -   | -                                                                                            | 9.0  | -   |



| 363,800 lb + 110,200 lb 36.1-62.3 ft |         |         |       |       |       |       | 27.6 ft 32.2 ft/s 360° ASME B30.5 |         |         |       |       |       |       |
|--------------------------------------|---------|---------|-------|-------|-------|-------|-----------------------------------|---------|---------|-------|-------|-------|-------|
| 118.1 ft + 78.7 ft                   |         |         |       |       |       |       | 118.1 ft + 196.9 ft               |         |         |       |       |       |       |
| SWSL_1   SFSL_1                      |         |         |       |       |       |       | SWSL_1   SFSL_1                   |         |         |       |       |       |       |
| 0 lb   0 lb - 716,600 lb             |         |         |       |       |       |       | 0 lb   0 lb - 716,600 lb          |         |         |       |       |       |       |
| ft                                   | 87°/85° | 87°/85° | 75°   | 65°   | 55°   | 15°   | ft                                | 87°/85° | 87°/85° | 75°   | 65°   | 55°   | 15°   |
| 1,000 lb                             |         |         |       |       |       |       | 1,000 lb                          |         |         |       |       |       |       |
| 78.7                                 | -       | -       | 765.0 | -     | -     | -     | 128.0                             | -       | -       | 306.4 | -     | -     | -     |
| 82.0                                 | -       | -       | 740.8 | -     | -     | 740.8 | 137.8                             | -       | -       | 306.4 | -     | -     | -     |
| 85.3                                 | -       | -       | 714.3 | -     | -     | 712.1 | 141.1                             | -       | -       | 306.4 | -     | -     | 313.1 |
| 91.9                                 | -       | -       | 663.6 | -     | -     | 657.0 | 150.9                             | -       | -       | 306.4 | -     | -     | 307.8 |
| 98.4                                 | -       | -       | 617.3 | -     | -     | 608.5 | 164.0                             | -       | -       | 288.8 | -     | -     | 299.8 |
| 108.3                                | -       | -       | 524.7 | 546.7 | -     | 546.7 | 173.9                             | -       | -       | 264.0 | 264.6 | -     | 293.2 |
| 111.5                                | -       | -       | 493.8 | 529.1 | -     | 526.2 | 177.2                             | -       | -       | 255.7 | 264.6 | -     | 291.0 |
| 114.8                                | -       | -       | 451.9 | 513.1 | -     | 505.6 | 190.3                             | -       | -       | 224.9 | 264.6 | -     | 266.0 |
| 124.7                                | -       | -       | -     | 465.2 | -     | 451.2 | 203.4                             | -       | -       | 198.4 | 242.5 | -     | 241.0 |
| 134.5                                | -       | -       | -     | 427.7 | -     | 400.5 | 216.5                             | -       | -       | 174.2 | 218.3 | -     | 216.1 |
| 137.8                                | -       | -       | -     | -     | 381.4 | 383.6 | 219.8                             | -       | -       | 167.6 | 212.5 | 203.9 | 210.4 |
| 150.9                                | -       | -       | -     | -     | 343.9 | 327.8 | 226.4                             | -       | -       | 154.3 | 200.9 | 197.3 | 199.0 |
| 164.0                                | -       | -       | -     | -     | -     | 276.3 | 229.7                             | -       | -       | -     | 195.1 | 192.9 | 193.3 |
| 177.2                                | -       | -       | -     | -     | -     | 229.3 | 242.8                             | -       | -       | -     | 170.9 | 179.7 | 172.0 |
| 187.0                                | -       | -       | -     | -     | -     | 197.3 | 246.1                             | -       | -       | -     | 164.2 | 176.9 | 167.0 |
|                                      |         |         |       |       |       |       | 255.9                             | -       | -       | -     | -     | 168.7 | 152.1 |
|                                      |         |         |       |       |       |       | 265.7                             | -       | -       | -     | -     | 160.9 | 138.1 |
|                                      |         |         |       |       |       |       | 269.0                             | -       | -       | -     | -     | -     | 133.4 |
|                                      |         |         |       |       |       |       | 282.2                             | -       | -       | -     | -     | -     | 115.8 |
|                                      |         |         |       |       |       |       | 295.3                             | -       | -       | -     | -     | -     | 98.3  |
|                                      |         |         |       |       |       |       | 298.6                             | -       | -       | -     | -     | -     | 93.7  |

| 118.1 ft + 118.1 ft |   |   |       |       |       |       |
|---------------------|---|---|-------|-------|-------|-------|
| 1,000 lb            |   |   |       |       |       |       |
| 95.1                | - | - | 632.7 | -     | -     | -     |
| 98.4                | - | - | 610.7 | -     | -     | -     |
| 101.7               | - | - | 591.9 | -     | -     | 590.8 |
| 111.5               | - | - | 535.7 | -     | -     | 536.6 |
| 124.7               | - | - | 445.3 | -     | -     | 469.6 |
| 131.2               | - | - | 405.7 | 434.3 | -     | 438.7 |
| 137.8               | - | - | 366.0 | 410.1 | -     | 407.9 |
| 150.9               | - | - | 295.4 | 368.2 | -     | 357.9 |
| 164.0               | - | - | -     | 335.1 | 306.4 | 312.3 |
| 170.6               | - | - | -     | 310.9 | 291.7 | 291.7 |
| 177.2               | - | - | -     | -     | 280.0 | 271.2 |
| 190.3               | - | - | -     | -     | 255.7 | 235.9 |
| 203.4               | - | - | -     | -     | -     | 202.5 |
| 216.5               | - | - | -     | -     | -     | 170.9 |
| 223.1               | - | - | -     | -     | -     | 155.4 |

| 118.1 ft + 157.5 ft |   |   |       |       |       |       |
|---------------------|---|---|-------|-------|-------|-------|
| 1,000 lb            |   |   |       |       |       |       |
| 108.3               | - | - | 445.3 | -     | -     | -     |
| 111.5               | - | - | 445.3 | -     | -     | -     |
| 121.4               | - | - | 445.3 | -     | -     | 454.2 |
| 124.7               | - | - | 445.3 | -     | -     | 447.1 |
| 137.8               | - | - | 383.6 | -     | -     | 418.9 |
| 150.9               | - | - | 330.7 | -     | -     | 374.8 |
| 154.2               | - | - | 320.2 | 357.1 | -     | 363.8 |
| 164.0               | - | - | 288.8 | 332.9 | -     | 332.2 |
| 177.2               | - | - | 246.9 | 302.0 | -     | 291.0 |
| 190.3               | - | - | 208.3 | 275.6 | -     | 258.7 |
| 193.6               | - | - | -     | 266.2 | 246.9 | 250.6 |
| 203.4               | - | - | -     | 238.1 | 231.5 | 228.9 |
| 210.0               | - | - | -     | 219.4 | 223.8 | 215.3 |
| 216.5               | - | - | -     | -     | 216.1 | 201.7 |
| 226.4               | - | - | -     | -     | 203.9 | 183.0 |
| 229.7               | - | - | -     | -     | -     | 176.7 |
| 242.8               | - | - | -     | -     | -     | 152.9 |
| 255.9               | - | - | -     | -     | -     | 130.1 |
| 262.5               | - | - | -     | -     | -     | 117.9 |

| 118.1 ft + 236.2 ft |   |   |       |       |       |       |
|---------------------|---|---|-------|-------|-------|-------|
| 1,000 lb            |   |   |       |       |       |       |
| 144.4               | - | - | 213.8 | -     | -     | -     |
| 150.9               | - | - | 213.8 | -     | -     | -     |
| 160.8               | - | - | 213.0 | -     | -     | 213.8 |
| 164.0               | - | - | 212.7 | -     | -     | 212.5 |
| 177.2               | - | - | 211.6 | -     | -     | 207.2 |
| 190.3               | - | - | 209.4 | -     | -     | 201.4 |
| 196.9               | - | - | 207.8 | 180.8 | -     | 198.4 |
| 203.4               | - | - | 206.1 | 180.8 | -     | 195.8 |
| 216.5               | - | - | 185.2 | 180.8 | -     | 190.7 |
| 229.7               | - | - | 165.3 | 180.8 | -     | 184.8 |
| 242.8               | - | - | 147.7 | 178.6 | -     | 176.4 |
| 246.1               | - | - | 143.3 | 174.7 | 154.3 | 173.6 |
| 255.9               | - | - | 130.1 | 163.1 | 154.3 | 165.3 |
| 265.7               | - | - | 116.8 | 149.9 | 153.5 | 152.9 |
| 269.0               | - | - | -     | 145.5 | 153.2 | 148.8 |
| 282.2               | - | - | -     | 129.0 | 143.3 | 132.3 |
| 285.4               | - | - | -     | 124.6 | 141.1 | 128.4 |
| 295.3               | - | - | -     | -     | 134.5 | 116.8 |
| 301.8               | - | - | -     | -     | 131.2 | 109.9 |
| 308.4               | - | - | -     | -     | -     | 102.9 |
| 321.5               | - | - | -     | -     | -     | 88.7  |
| 334.6               | - | - | -     | -     | -     | 74.3  |
| 337.9               | - | - | -     | -     | -     | 70.5  |

0 lb
 143,300 lb
 275,600 lb
 363,800 lb
 452,000 lb
 540,200 lb
 628,400 lb
 716,600 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  363,800 lb +  110,200 lb  36.1-62.3 ft  27.6 ft  32.2 ft/s 360° ASME B30.5                                          |          |   |       |       |       |   |   |       |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---|-------|-------|-------|---|---|-------|---|
|  118.1 ft +  275.6 ft                                                                                                                                                                                                                                                                                                                                                     |          |   |       |       |       |   |   |       |   |
|   SWSL_1  SFSL_1                                                                                                                                                                                                                                                                         |          |   |       |       |       |   |   |       |   |
|   0 lb  0 lb - 716,600 lb                                                                                                                                                                                                                                                                |          |   |       |       |       |   |   |       |   |
|  87°/85°  87°/85°  75°  65°  55°  15° |          |   |       |       |       |   |   |       |   |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1,000 lb |   |       |       |       |   |   |       |   |
| 160.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | 146.6 | -     | -     | - | - | -     | - |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | 146.6 | -     | -     | - | - | -     | - |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | 145.5 | -     | -     | - | - | -     | - |
| 180.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | 145.2 | -     | -     | - | - | 145.5 | - |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | 144.4 | -     | -     | - | - | 142.9 | - |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | 143.3 | -     | -     | - | - | 139.3 | - |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | 141.1 | -     | -     | - | - | 135.6 | - |
| 219.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | 140.8 | 121.3 | -     | - | - | 134.5 | - |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | 140.0 | 121.3 | -     | - | - | 131.2 | - |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | 138.9 | 121.3 | -     | - | - | 127.1 | - |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | 136.7 | 121.3 | -     | - | - | 123.5 | - |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | 123.5 | 121.3 | -     | - | - | 120.5 | - |
| 275.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | 116.8 | 121.3 | 104.9 | - | - | 119.0 | - |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | 110.2 | 121.3 | 104.9 | - | - | 117.6 | - |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | 97.9  | 121.3 | 104.9 | - | - | 114.6 | - |
| 305.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | 87.5  | 113.0 | 104.9 | - | - | 110.9 | - |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | -     | 110.2 | 104.9 | - | - | 109.6 | - |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | -     | 97.9  | 104.9 | - | - | 101.0 | - |
| 324.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | -     | 94.4  | 104.9 | - | - | 98.0  | - |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | -     | -     | 104.9 | - | - | 88.8  | - |
| 341.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | -     | -     | 102.1 | - | - | 83.0  | - |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | -     | -     | -     | - | - | 77.2  | - |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | -     | -     | -     | - | - | 65.5  | - |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | -     | -     | -     | - | - | 53.6  | - |
| 377.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -        | - | -     | -     | -     | - | - | 50.3  | - |

|  118.1 ft +  315.0 ft |          |   |       |      |      |   |   |       |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---|-------|------|------|---|---|-------|---|
| ft                                                                                                                                                                                          | 1,000 lb |   |       |      |      |   |   |       |   |
| 177.2                                                                                                                                                                                       | -        | - | 102.5 | -    | -    | - | - | -     | - |
| 190.3                                                                                                                                                                                       | -        | - | 101.6 | -    | -    | - | - | -     | - |
| 200.1                                                                                                                                                                                       | -        | - | 101.0 | -    | -    | - | - | 101.6 | - |
| 203.4                                                                                                                                                                                       | -        | - | 100.8 | -    | -    | - | - | 100.9 | - |
| 216.5                                                                                                                                                                                       | -        | - | 99.6  | -    | -    | - | - | 97.9  | - |
| 229.7                                                                                                                                                                                       | -        | - | 98.3  | -    | -    | - | - | 95.1  | - |
| 242.8                                                                                                                                                                                       | -        | - | 97.2  | 83.6 | -    | - | - | 92.2  | - |
| 255.9                                                                                                                                                                                       | -        | - | 96.1  | 83.6 | -    | - | - | 89.3  | - |
| 269.0                                                                                                                                                                                       | -        | - | 94.8  | 83.6 | -    | - | - | 86.5  | - |
| 282.2                                                                                                                                                                                       | -        | - | 93.9  | 83.6 | -    | - | - | 83.8  | - |
| 295.3                                                                                                                                                                                       | -        | - | 93.0  | 83.6 | -    | - | - | 81.1  | - |
| 301.8                                                                                                                                                                                       | -        | - | 92.6  | 83.6 | 70.1 | - | - | 80.0  | - |
| 308.4                                                                                                                                                                                       | -        | - | 92.2  | 83.6 | 70.1 | - | - | 78.8  | - |
| 321.5                                                                                                                                                                                       | -        | - | 83.6  | 83.6 | 70.1 | - | - | 76.6  | - |
| 334.6                                                                                                                                                                                       | -        | - | 73.6  | 83.6 | 70.1 | - | - | 74.5  | - |
| 341.2                                                                                                                                                                                       | -        | - | 68.1  | 83.6 | 70.1 | - | - | 73.7  | - |
| 347.8                                                                                                                                                                                       | -        | - | -     | 83.6 | 70.1 | - | - | 72.9  | - |
| 360.9                                                                                                                                                                                       | -        | - | -     | 74.1 | 70.1 | - | - | 70.3  | - |
| 374.0                                                                                                                                                                                       | -        | - | -     | -    | 70.1 | - | - | 66.6  | - |
| 380.6                                                                                                                                                                                       | -        | - | -     | -    | 70.1 | - | - | 61.7  | - |
| 387.1                                                                                                                                                                                       | -        | - | -     | -    | -    | - | - | 56.9  | - |
| 400.3                                                                                                                                                                                       | -        | - | -     | -    | -    | - | - | 46.9  | - |
| 413.4                                                                                                                                                                                       | -        | - | -     | -    | -    | - | - | 36.6  | - |

|                                                                                     |            |            |            |            |
|-------------------------------------------------------------------------------------|------------|------------|------------|------------|
|  | 0 lb       | 143,300 lb | 275,600 lb | 363,800 lb |
|  | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb |

|  137.8 ft +  118.1 ft |          |        |       |       |       |   |   |       |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|-------|-------|-------|---|---|-------|---|
| ft                                                                                                                                                                                            | 1,000 lb |        |       |       |       |   |   |       |   |
| 45.9                                                                                                                                                                                          | 410.1    | 639.3  | -     | -     | -     | - | - | -     | - |
| 52.5                                                                                                                                                                                          | 361.6    | 630.5  | -     | -     | -     | - | - | -     | - |
| 59.1                                                                                                                                                                                          | 324.1    | 648.2* | -     | -     | -     | - | - | -     | - |
| 65.6                                                                                                                                                                                          | 291.0    | 639.3* | -     | -     | -     | - | - | -     | - |
| 68.9                                                                                                                                                                                          | 278.9    | 633.8* | -     | -     | -     | - | - | 628.3 | - |
| 72.2                                                                                                                                                                                          | 266.8    | 628.3* | -     | -     | -     | - | - | 623.9 | - |
| 78.7                                                                                                                                                                                          | 244.7    | 617.3* | -     | -     | -     | - | - | 621.7 | - |
| 85.3                                                                                                                                                                                          | 224.9    | 588.6* | -     | -     | -     | - | - | 617.3 | - |
| 91.9                                                                                                                                                                                          | 203.9    | 533.5* | -     | -     | -     | - | - | 615.1 | - |
| 98.4                                                                                                                                                                                          | 185.2    | 478.4* | 604.1 | -     | -     | - | - | 608.5 | - |
| 111.5                                                                                                                                                                                         | 156.5    | 388.0* | 531.3 | -     | -     | - | - | 533.5 | - |
| 124.7                                                                                                                                                                                         | 135.6    | 313.1* | 471.8 | -     | -     | - | - | 468.1 | - |
| 128.0                                                                                                                                                                                         | 131.2    | 294.3* | 451.4 | -     | -     | - | - | 454.2 | - |
| 131.2                                                                                                                                                                                         | 123.5*   | 275.6* | 431.0 | -     | -     | - | - | 440.2 | - |
| 137.8                                                                                                                                                                                         | -        | -      | 390.2 | -     | -     | - | - | 412.3 | - |
| 141.1                                                                                                                                                                                         | -        | -      | 372.6 | 399.0 | -     | - | - | 401.2 | - |
| 150.9                                                                                                                                                                                         | -        | -      | 319.7 | 368.2 | -     | - | - | 368.2 | - |
| 157.5                                                                                                                                                                                         | -        | -      | 282.2 | 351.6 | -     | - | - | 346.1 | - |
| 164.0                                                                                                                                                                                         | -        | -      | -     | 335.1 | -     | - | - | 329.2 | - |
| 177.2                                                                                                                                                                                         | -        | -      | -     | 306.4 | 295.4 | - | - | 295.4 | - |
| 180.4                                                                                                                                                                                         | -        | -      | -     | 297.6 | 288.8 | - | - | 287.0 | - |
| 190.3                                                                                                                                                                                         | -        | -      | -     | -     | 271.2 | - | - | 261.6 | - |
| 200.1                                                                                                                                                                                         | -        | -      | -     | -     | 255.7 | - | - | 237.2 | - |
| 203.4                                                                                                                                                                                         | -        | -      | -     | -     | -     | - | - | 229.6 | - |
| 216.5                                                                                                                                                                                         | -        | -      | -     | -     | -     | - | - | 206.1 | - |
| 229.7                                                                                                                                                                                         | -        | -      | -     | -     | -     | - | - | 178.2 | - |
| 239.5                                                                                                                                                                                         | -        | -      | -     | -     | -     | - | - | 163.1 | - |

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

| 363,800 lb + 110,200 lb 36.1-62.3 ft |         |         |       |       |       |       | 27.6 ft 32.2 ft/s 360° ASME B30.5 |         |         |       |       |       |       |
|--------------------------------------|---------|---------|-------|-------|-------|-------|-----------------------------------|---------|---------|-------|-------|-------|-------|
| 137.8 ft + 157.5 ft                  |         |         |       |       |       |       | 137.8 ft + 236.2 ft               |         |         |       |       |       |       |
| SWSL_1   SFSL_1                      |         |         |       |       |       |       | SWSL_1   SFSL_1                   |         |         |       |       |       |       |
| 0 lb   0 lb - 716,600 lb             |         |         |       |       |       |       | 0 lb   0 lb - 716,600 lb          |         |         |       |       |       |       |
| ft                                   | 87°/85° | 87°/85° | 75°   | 65°   | 55°   | 15°   | ft                                | 87°/85° | 87°/85° | 75°   | 65°   | 55°   | 15°   |
| 1,000 lb                             |         |         |       |       |       |       | 1,000 lb                          |         |         |       |       |       |       |
| 55.8                                 | 317.5   | 447.5   | -     | -     | -     | -     | 72.2                              | 216.1   | 231.5   | -     | -     | -     | -     |
| 59.1                                 | 299.8   | 447.5   | -     | -     | -     | -     | 78.7                              | 198.4   | 229.3   | -     | -     | -     | -     |
| 65.6                                 | 271.2   | 451.9*  | -     | -     | -     | -     | 85.3                              | 183.0   | 229.3*  | -     | -     | -     | -     |
| 72.2                                 | 246.9   | 451.9*  | -     | -     | -     | -     | 91.9                              | 169.8   | 227.1*  | -     | -     | -     | -     |
| 78.7                                 | 227.1   | 449.7*  | -     | -     | -     | -     | 98.4                              | 157.6   | 227.1*  | -     | -     | -     | -     |
| 82.0                                 | 218.3   | 447.5*  | -     | -     | -     | 443.1 | 111.5                             | 136.7   | 224.9*  | -     | -     | -     | 224.9 |
| 85.3                                 | 209.4   | 445.3*  | -     | -     | -     | 443.1 | 124.7                             | 120.2   | 220.5*  | -     | -     | -     | 221.2 |
| 91.9                                 | 194.0   | 443.1*  | -     | -     | -     | 443.1 | 137.8                             | 107.4   | 217.2*  | -     | -     | -     | 218.3 |
| 98.4                                 | 180.8   | 436.5*  | -     | -     | -     | 443.1 | 147.6                             | 98.8    | 213.8*  | 203.9 | -     | -     | 215.0 |
| 111.5                                | 154.3   | 416.7*  | -     | -     | -     | 436.5 | 150.9                             | 95.9    | 212.7*  | 203.9 | -     | -     | 213.8 |
| 114.8                                | 148.8   | 400.1*  | 421.1 | -     | -     | 436.5 | 164.0                             | 84.7    | 208.3*  | 203.9 | -     | -     | 208.7 |
| 124.7                                | 132.3   | 350.5*  | 421.1 | -     | -     | 429.9 | 177.2                             | 75.0    | 203.9*  | 203.9 | -     | -     | 202.8 |
| 137.8                                | 115.7   | 297.6*  | 414.5 | -     | -     | 416.7 | 190.3                             | 66.8    | 187.4*  | 203.9 | -     | -     | 197.7 |
| 150.9                                | 101.9   | 253.5*  | 352.7 | -     | -     | 372.6 | 203.4                             | 59.7    | 166.4*  | 202.8 | -     | -     | 191.4 |
| 164.0                                | 90.6    | 213.8*  | 302.0 | 328.5 | -     | 333.6 | 206.7                             | 58.2    | 161.5*  | 200.1 | 172.0 | -     | 190.1 |
| 167.3                                | 88.2    | 203.4*  | 291.6 | 321.9 | -     | 325.2 | 216.5                             | 53.6    | 146.6*  | 191.8 | 172.0 | -     | 186.3 |
| 170.6                                | 83.3*   | 192.9*  | 281.1 | 314.5 | -     | 316.7 | 229.7                             | 48.1    | 129.0*  | 170.9 | 172.0 | -     | 181.1 |
| 177.2                                | -       | -       | 260.1 | 299.8 | -     | 299.8 | 242.8                             | 43.2    | 110.2*  | 152.1 | 172.0 | -     | 176.0 |
| 190.3                                | -       | -       | 220.5 | 275.6 | -     | 273.4 | 246.1                             | 39.9*   | 105.8*  | 147.7 | 172.0 | -     | 174.7 |
| 193.6                                | -       | -       | 210.5 | 270.6 | -     | 266.8 | 255.9                             | -       | -       | 134.5 | 172.0 | -     | 170.9 |
| 203.4                                | -       | -       | -     | 255.7 | -     | 248.4 | 259.2                             | -       | -       | 130.1 | 167.8 | 145.5 | 169.8 |
| 206.7                                | -       | -       | -     | 246.9 | 242.5 | 242.5 | 269.0                             | -       | -       | 116.8 | 155.4 | 145.5 | 161.2 |
| 216.5                                | -       | -       | -     | 220.5 | 229.3 | 224.9 | 272.3                             | -       | -       | 111.3 | 151.0 | 145.5 | 158.3 |
| 229.7                                | -       | -       | -     | -     | 213.8 | 199.2 | 282.2                             | -       | -       | -     | 137.8 | 145.5 | 147.7 |
| 239.5                                | -       | -       | -     | -     | 202.8 | 181.0 | 292.0                             | -       | -       | -     | 124.6 | 144.7 | 136.1 |
| 242.8                                | -       | -       | -     | -     | -     | 176.8 | 295.3                             | -       | -       | -     | -     | 144.4 | 132.3 |
| 255.9                                | -       | -       | -     | -     | -     | 158.7 | 308.4                             | -       | -       | -     | -     | 135.6 | 121.3 |
| 269.0                                | -       | -       | -     | -     | -     | 138.2 | 315.0                             | -       | -       | -     | -     | 129.0 | 115.7 |
| 278.9                                | -       | -       | -     | -     | -     | 126.8 | 321.5                             | -       | -       | -     | -     | -     | 108.8 |
|                                      |         |         |       |       |       |       | 334.6                             | -       | -       | -     | -     | -     | 96.3  |
|                                      |         |         |       |       |       |       | 347.8                             | -       | -       | -     | -     | -     | 84.6  |
|                                      |         |         |       |       |       |       | 354.3                             | -       | -       | -     | -     | -     | 78.7  |

| 137.8 ft + 196.9 ft |          |        |       |       |       |       |
|---------------------|----------|--------|-------|-------|-------|-------|
| ft                  | 1,000 lb |        |       |       |       |       |
| 65.6                | 253.5    | 319.7  | -     | -     | -     | -     |
| 72.2                | 231.5    | 317.5  | -     | -     | -     | -     |
| 78.7                | 212.7    | 319.7* | -     | -     | -     | -     |
| 85.3                | 196.2    | 319.7* | -     | -     | -     | -     |
| 91.9                | 181.9    | 317.5* | -     | -     | -     | -     |
| 98.4                | 168.7    | 317.5* | -     | -     | -     | 317.5 |
| 111.5               | 147.7    | 313.1* | -     | -     | -     | 314.5 |
| 124.7               | 130.1    | 306.4* | -     | -     | -     | 310.9 |
| 131.2               | 121.3    | 304.2* | 293.2 | -     | -     | 308.6 |
| 137.8               | 112.4    | 302.0* | 293.2 | -     | -     | 306.4 |
| 150.9               | 99.2     | 266.8* | 291.0 | -     | -     | 299.1 |
| 164.0               | 87.7     | 231.5* | 291.0 | -     | -     | 289.5 |
| 177.2               | 78.3     | 202.8* | 271.2 | -     | -     | 282.2 |
| 183.7               | 74.2     | 189.6* | 253.5 | 249.1 | -     | 274.8 |
| 190.3               | 70.1     | 176.4* | 235.9 | 249.1 | -     | 267.5 |
| 203.4               | 63.3     | 149.9* | 208.3 | 249.1 | -     | 249.9 |
| 210.0               | 58.2*    | 135.6* | 195.1 | 241.4 | -     | 239.6 |
| 216.5               | -        | -      | 181.9 | 233.7 | -     | 229.3 |
| 229.7               | -        | -      | 156.5 | 210.5 | -     | 211.6 |
| 232.9               | -        | -      | 149.9 | 204.2 | 206.1 | 207.2 |
| 242.8               | -        | -      | -     | 185.2 | 195.1 | 192.9 |
| 255.9               | -        | -      | -     | 159.8 | 181.9 | 173.1 |
| 269.0               | -        | -      | -     | -     | 170.9 | 153.7 |
| 275.6               | -        | -      | -     | -     | 165.3 | 147.7 |
| 282.2               | -        | -      | -     | -     | -     | 139.6 |
| 295.3               | -        | -      | -     | -     | -     | 123.5 |
| 308.4               | -        | -      | -     | -     | -     | 109.0 |
| 318.2               | -        | -      | -     | -     | -     | 98.8  |

|  |            |            |            |            |
|--|------------|------------|------------|------------|
|  | 0 lb       | 143,300 lb | 275,600 lb | 363,800 lb |
|  | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb |

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  363,800 lb +  110,200 lb  36.1-62.3 ft  27.6 ft  32.2 ft/s 360° ASME B30.5 |          |        |       |       |      |   |   |       |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|-------|-------|------|---|---|-------|---|
|  137.8 ft +  275.6 ft                                                                                                                                                                                                                                                                                                            |          |        |       |       |      |   |   |       |   |
|   SWSL_1  SFSL_1                                                                                                                                                                                                                                |          |        |       |       |      |   |   |       |   |
|  0 lb  0 lb - 716,600 lb                                                                                                                                                                                                                                                                                                         |          |        |       |       |      |   |   |       |   |
|  87°/85°  87°/85° 75° 65° 55°  15°                                                                                                                                                                                                              |          |        |       |       |      |   |   |       |   |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1,000 lb |        |       |       |      |   |   |       |   |
| 82.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 162.0    | 165.3  | -     | -     | -    | - | - | -     | - |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 162.0    | 164.2  | -     | -     | -    | - | - | -     | - |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 157.6    | 163.1  | -     | -     | -    | - | - | -     | - |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 145.5    | 162.0* | -     | -     | -    | - | - | -     | - |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 126.8    | 159.8* | -     | -     | -    | - | - | -     | - |
| 118.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 119.0    | 158.2* | -     | -     | -    | - | - | 157.6 | - |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 111.3    | 156.5* | -     | -     | -    | - | - | 156.5 | - |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 98.3     | 154.3* | -     | -     | -    | - | - | 154.3 | - |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 87.1     | 151.0* | -     | -     | -    | - | - | 151.4 | - |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 77.6     | 148.8* | 141.1 | -     | -    | - | - | 148.1 | - |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 69.4     | 145.5* | 141.1 | -     | -    | - | - | 144.4 | - |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 62.4     | 142.2* | 140.0 | -     | -    | - | - | 140.0 | - |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 56.0     | 140.0* | 138.9 | -     | -    | - | - | 136.0 | - |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 49.8     | 137.8* | 137.8 | -     | -    | - | - | 132.3 | - |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 44.1     | 135.6* | 136.7 | 115.7 | -    | - | - | 128.6 | - |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 39.0     | 122.4* | 136.7 | 115.7 | -    | - | - | 125.1 | - |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 34.4     | 109.3* | 135.6 | 115.7 | -    | - | - | 121.3 | - |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 30.4     | 96.1*  | 127.9 | 115.7 | -    | - | - | 118.3 | - |
| 278.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 27.8     | 85.9*  | 117.9 | 115.7 | -    | - | - | 115.2 | - |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 25.1*    | 82.5*  | 114.6 | 115.7 | -    | - | - | 114.3 | - |
| 285.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 24.3*    | 78.7*  | 111.4 | 115.7 | 99.2 | - | - | 113.5 | - |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | 101.6 | 115.7 | 99.2 | - | - | 111.3 | - |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | 88.2  | 115.7 | 99.2 | - | - | 109.1 | - |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | 105.2 | 99.2 | - | - | 106.8 | - |
| 331.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | 95.2  | 99.2 | - | - | 104.9 | - |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -     | 99.2 | - | - | 104.3 | - |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -     | 99.2 | - | - | 95.2  | - |
| 351.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -     | 99.2 | - | - | 92.4  | - |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -     | -    | - | - | 83.8  | - |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -     | -    | - | - | 75.6  | - |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -     | -    | - | - | 64.4  | - |
| 393.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -     | -    | - | - | 58.9  | - |

|                                                                                     |            |            |            |            |
|-------------------------------------------------------------------------------------|------------|------------|------------|------------|
|  | 0 lb       | 143,300 lb | 275,600 lb | 363,800 lb |
|                                                                                     | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb |

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1



|  363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s 360° ASME B30.5 |          |        |       |       |       |       |       |   |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|-------|-------|-------|-------|-------|---|---|
|  157.5 ft +  78.7 ft                                                                                                                                                                                                                                                                                                             |          |        |       |       |       |       |       |   |   |
| <div> <div>SWSL_1</div> <div>SFSL_1</div> <div>SFSL_3</div> </div> <div> <div>0 lb</div> <div>0 lb - 716,600 lb</div> </div> <div> <div>87°/85°</div> <div>87°/85°</div> <div>75°</div> <div>65°</div> <div>55°</div> <div>15°</div> <div>15°</div> </div>                                                                                                                                                                                                                                         |          |        |       |       |       |       |       |   |   |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1,000 lb |        |       |       |       |       |       |   |   |
| 39.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 489.4    | 765.0  | -     | -     | -     | -     | -     | - | - |
| 45.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 425.5    | 765.0* | -     | -     | -     | -     | -     | - | - |
| 52.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 374.8    | 765.0* | -     | -     | -     | 765.0 | 765.0 | - | - |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 335.1    | 765.0* | -     | -     | -     | 765.0 | 765.0 | - | - |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 304.2    | 756.2* | -     | -     | -     | 765.0 | 765.0 | - | - |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 277.8    | 723.1* | -     | -     | -     | 765.0 | 765.0 | - | - |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 253.5    | 663.6* | -     | -     | -     | 760.6 | 765.0 | - | - |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 227.1    | 577.6* | -     | -     | -     | 703.3 | 760.6 | - | - |
| 88.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 216.6    | 535.7* | 672.4 | -     | -     | 675.7 | 733.0 | - | - |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 206.1    | 493.8* | 648.2 | -     | -     | 648.2 | 705.5 | - | - |
| 95.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 191.8*   | 454.2* | 626.1 | -     | -     | 623.9 | 680.1 | - | - |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | 604.1 | -     | -     | 599.7 | 654.8 | - | - |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | 531.3 | -     | -     | 524.7 | 573.9 | - | - |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | 451.9 | -     | -     | 460.0 | 503.4 | - | - |
| 128.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -     | -     | 446.4 | 488.3 | - | - |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | 410.1 | -     | 405.7 | 443.1 | - | - |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | 368.2 | -     | 361.6 | 399.0 | - | - |
| 160.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -     | 330.7 | 331.1 | 366.7 | - | - |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -     | 321.9 | 322.6 | 356.4 | - | - |
| 173.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -     | 302.0 | 297.3 | 325.5 | - | - |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -     | -     | 288.8 | 315.3 | - | - |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -     | -     | 253.5 | 274.1 | - | - |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -     | -     | 218.3 | 242.1 | - | - |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -     | -     | 191.8 | 207.2 | - | - |
| 219.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -     | -     | 183.0 | 201.7 | - | - |

|  157.5 ft +  118.1 ft |          |        |       |       |       |       |       |   |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|-------|-------|-------|-------|-------|---|---|
| ft                                                                                                                                                                                          | 1,000 lb |        |       |       |       |       |       |   |   |
| 45.9                                                                                                                                                                                        | 392.4    | 582.0  | -     | -     | -     | -     | -     | - | - |
| 52.5                                                                                                                                                                                        | 348.3    | 575.4  | -     | -     | -     | -     | -     | - | - |
| 59.1                                                                                                                                                                                        | 310.9    | 593.0* | -     | -     | -     | -     | -     | - | - |
| 65.6                                                                                                                                                                                        | 282.2    | 586.4* | -     | -     | -     | 571.0 | -     | - | - |
| 72.2                                                                                                                                                                                        | 257.9    | 577.6* | -     | -     | -     | 571.0 | 601.9 | - | - |
| 78.7                                                                                                                                                                                        | 235.9    | 568.8* | -     | -     | -     | 568.8 | 595.2 | - | - |
| 85.3                                                                                                                                                                                        | 218.3    | 551.2* | -     | -     | -     | 566.6 | 588.6 | - | - |
| 91.9                                                                                                                                                                                        | 202.8    | 535.7* | -     | -     | -     | 562.2 | 586.4 | - | - |
| 98.4                                                                                                                                                                                        | 185.2    | 496.0* | -     | -     | -     | 560.0 | 582.0 | - | - |
| 105.0                                                                                                                                                                                       | 170.9    | 448.6* | 560.0 | -     | -     | 534.3 | 565.9 | - | - |
| 111.5                                                                                                                                                                                       | 156.5    | 401.2* | 524.7 | -     | -     | 512.9 | 551.9 | - | - |
| 124.7                                                                                                                                                                                       | 135.6    | 326.3* | 467.4 | -     | -     | 464.4 | 508.5 | - | - |
| 128.0                                                                                                                                                                                       | 130.1    | 307.9* | 455.8 | -     | -     | 450.8 | 493.8 | - | - |
| 134.5                                                                                                                                                                                       | 117.9*   | 271.2* | 432.7 | -     | -     | 423.7 | 464.4 | - | - |
| 137.8                                                                                                                                                                                       | -        | -      | 421.1 | -     | -     | 410.1 | 449.7 | - | - |
| 150.9                                                                                                                                                                                       | -        | -      | 348.3 | 363.8 | -     | 366.0 | 402.7 | - | - |
| 160.8                                                                                                                                                                                       | -        | -      | 295.4 | 337.3 | -     | 335.5 | 370.7 | - | - |
| 164.0                                                                                                                                                                                       | -        | -      | -     | 328.5 | -     | 327.0 | 362.3 | - | - |
| 177.2                                                                                                                                                                                       | -        | -      | -     | 299.8 | -     | 293.2 | 328.5 | - | - |
| 187.0                                                                                                                                                                                       | -        | -      | -     | 282.2 | -     | 273.4 | 307.5 | - | - |
| 190.3                                                                                                                                                                                       | -        | -      | -     | -     | 266.8 | 266.8 | 300.6 | - | - |
| 203.4                                                                                                                                                                                       | -        | -      | -     | -     | 244.7 | 242.1 | 269.7 | - | - |
| 213.3                                                                                                                                                                                       | -        | -      | -     | -     | 233.7 | 225.1 | 244.3 | - | - |
| 216.5                                                                                                                                                                                       | -        | -      | -     | -     | -     | 219.4 | 235.9 | - | - |
| 229.7                                                                                                                                                                                       | -        | -      | -     | -     | -     | 192.2 | 211.6 | - | - |
| 242.8                                                                                                                                                                                       | -        | -      | -     | -     | -     | 170.6 | 186.7 | - | - |
| 255.9                                                                                                                                                                                       | -        | -      | -     | -     | -     | 147.7 | 162.0 | - | - |
| 259.2                                                                                                                                                                                       | -        | -      | -     | -     | -     | 142.2 | 157.6 | - | - |

|                                                                                     |            |            |            |            |
|-------------------------------------------------------------------------------------|------------|------------|------------|------------|
|  | 0 lb       | 143,300 lb | 275,600 lb | 363,800 lb |
|  | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb |

**SWSL\_1:**  36.1 ft – 62.3 ft

**SWSL\_3/SFSL\_3:**  36.1 ft – 68.9 ft

**SFSL\_3:**  496,100 lb +  110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

| 363,800 lb +  110,200 lb     36.1-68.9 ft     27.6 ft     32.2 ft/s    360°    ASME B30.5 |          |        |       |       |       |       |       |   |   |
|-------------------------------------------------------------------------------------------|----------|--------|-------|-------|-------|-------|-------|---|---|
| 157.5 ft +  196.9 ft                                                                      |          |        |       |       |       |       |       |   |   |
| 157.5 ft +  236.2 ft                                                                      |          |        |       |       |       |       |       |   |   |
| SWSL_1     SFSL_1     SFSL_3                                                              |          |        |       |       |       |       |       |   |   |
| 0 lb     0 lb - 716,600 lb                                                                |          |        |       |       |       |       |       |   |   |
| 87°/85°     87°/85°     75°     65°     55°     15°     15°                               |          |        |       |       |       |       |       |   |   |
| ft                                                                                        | 1,000 lb |        |       |       |       |       |       |   |   |
| 65.6                                                                                      | 244.7    | 302.0  | -     | -     | -     | -     | -     | - | - |
| 72.2                                                                                      | 222.7    | 299.8  | -     | -     | -     | -     | -     | - | - |
| 78.7                                                                                      | 205.0    | 302.0* | -     | -     | -     | -     | -     | - | - |
| 85.3                                                                                      | 189.6    | 302.0* | -     | -     | -     | -     | -     | - | - |
| 91.9                                                                                      | 176.4    | 302.0* | -     | -     | -     | -     | -     | - | - |
| 95.1                                                                                      | 169.8    | 300.9* | -     | -     | -     | 297.6 | 310.9 | - | - |
| 98.4                                                                                      | 163.1    | 299.8* | -     | -     | -     | 297.6 | 310.9 | - | - |
| 111.5                                                                                     | 143.3    | 295.4* | -     | -     | -     | 296.2 | 310.9 | - | - |
| 124.7                                                                                     | 126.8    | 291.0* | -     | -     | -     | 293.9 | 309.4 | - | - |
| 137.8                                                                                     | 112.4    | 284.4* | 273.4 | -     | -     | 291.0 | 306.4 | - | - |
| 150.9                                                                                     | 98.5     | 271.2* | 273.4 | -     | -     | 282.9 | 299.1 | - | - |
| 164.0                                                                                     | 87.1     | 235.9* | 273.4 | -     | -     | 276.3 | 291.0 | - | - |
| 177.2                                                                                     | 77.6     | 206.1* | 273.4 | -     | -     | 269.0 | 282.2 | - | - |
| 190.3                                                                                     | 69.4     | 179.7* | 249.1 | -     | -     | 261.6 | 271.9 | - | - |
| 193.6                                                                                     | 67.8     | 173.3* | 241.7 | 233.7 | -     | 259.8 | 269.3 | - | - |
| 203.4                                                                                     | 62.8     | 154.3* | 219.4 | 233.7 | -     | 246.9 | 260.9 | - | - |
| 210.0                                                                                     | 57.1*    | 140.0* | 205.6 | 231.5 | -     | 235.9 | 255.0 | - | - |
| 216.5                                                                                     | -        | -      | 191.8 | 229.3 | -     | 224.9 | 249.1 | - | - |
| 229.7                                                                                     | -        | -      | 167.6 | 212.7 | -     | 208.0 | 235.9 | - | - |
| 239.5                                                                                     | -        | -      | 146.6 | 202.8 | -     | 195.7 | 224.5 | - | - |
| 242.8                                                                                     | -        | -      | -     | 199.5 | 189.6 | 191.8 | 219.7 | - | - |
| 255.9                                                                                     | -        | -      | -     | 176.4 | 177.5 | 177.5 | 200.6 | - | - |
| 262.5                                                                                     | -        | -      | -     | 163.1 | 172.5 | 170.1 | 190.7 | - | - |
| 269.0                                                                                     | -        | -      | -     | -     | 167.6 | 162.8 | 180.8 | - | - |
| 282.2                                                                                     | -        | -      | -     | -     | 157.6 | 147.0 | 161.3 | - | - |
| 288.7                                                                                     | -        | -      | -     | -     | 153.2 | 138.5 | 152.7 | - | - |
| 295.3                                                                                     | -        | -      | -     | -     | -     | 130.1 | 145.5 | - | - |
| 308.4                                                                                     | -        | -      | -     | -     | -     | 117.2 | 130.1 | - | - |
| 321.5                                                                                     | -        | -      | -     | -     | -     | 103.6 | 113.9 | - | - |
| 334.6                                                                                     | -        | -      | -     | -     | -     | 92.4  | 101.6 | - | - |

|  |            |            |            |            |
|--|------------|------------|------------|------------|
|  | 0 lb       | 143,300 lb | 275,600 lb | 363,800 lb |
|  | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb |

SWSL\_1: 36.1 ft – 62.3 ft

SWSL\_3/SFSL\_3: 36.1 ft – 68.9 ft

SFSL\_3: 496,100 lb + 110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

| 363,800 lb +  110,200 lb     36.1-68.9 ft     27.6 ft     32.2 ft/s    360°    ASME B30.5 |          |        |       |       |      |       |       |   |   |
|-------------------------------------------------------------------------------------------|----------|--------|-------|-------|------|-------|-------|---|---|
| 157.5 ft +  275.6 ft                                                                      |          |        |       |       |      |       |       |   |   |
| SWSL_1     SFSL_1     SFSL_3                                                              |          |        |       |       |      |       |       |   |   |
| 0 lb     0 lb - 716,600 lb                                                                |          |        |       |       |      |       |       |   |   |
| 87°/85°     87°/85°     75°     65°     55°     15°     15°                               |          |        |       |       |      |       |       |   |   |
| ft                                                                                        | 1,000 lb |        |       |       |      |       |       |   |   |
| 82.0                                                                                      | 155.4    | 158.7  | -     | -     | -    | -     | -     | - | - |
| 85.3                                                                                      | 155.4    | 157.6  | -     | -     | -    | -     | -     | - | - |
| 91.9                                                                                      | 152.1    | 156.5  | -     | -     | -    | -     | -     | - | - |
| 98.4                                                                                      | 141.1    | 155.4* | -     | -     | -    | -     | -     | - | - |
| 111.5                                                                                     | 122.4    | 154.3* | -     | -     | -    | -     | -     | - | - |
| 121.4                                                                                     | 111.3    | 152.7* | -     | -     | -    | 151.0 | 156.5 | - | - |
| 124.7                                                                                     | 107.6    | 152.1* | -     | -     | -    | 150.6 | 156.1 | - | - |
| 137.8                                                                                     | 95.0     | 148.8* | -     | -     | -    | 148.8 | 154.3 | - | - |
| 150.9                                                                                     | 84.2     | 146.6* | -     | -     | -    | 145.9 | 151.4 | - | - |
| 164.0                                                                                     | 75.0     | 144.4* | -     | -     | -    | 142.9 | 148.1 | - | - |
| 170.6                                                                                     | 71.0     | 142.7* | 134.5 | -     | -    | 141.5 | 146.2 | - | - |
| 177.2                                                                                     | 67.0     | 141.1* | 134.5 | -     | -    | 140.0 | 144.4 | - | - |
| 190.3                                                                                     | 60.0     | 138.9* | 134.5 | -     | -    | 136.3 | 140.7 | - | - |
| 203.4                                                                                     | 53.8     | 136.7* | 134.5 | -     | -    | 132.6 | 137.1 | - | - |
| 216.5                                                                                     | 48.3     | 134.5* | 133.4 | -     | -    | 129.0 | 133.4 | - | - |
| 229.7                                                                                     | 43.4     | 132.3* | 133.4 | -     | -    | 126.0 | 129.7 | - | - |
| 236.2                                                                                     | 40.9     | 129.0* | 132.8 | 110.2 | -    | 124.6 | 127.9 | - | - |
| 242.8                                                                                     | 38.4     | 125.7* | 132.3 | 110.2 | -    | 122.4 | 126.0 | - | - |
| 255.9                                                                                     | 34.0     | 111.3* | 132.3 | 110.2 | -    | 119.0 | 122.4 | - | - |
| 269.0                                                                                     | 30.0     | 99.0*  | 131.2 | 110.2 | -    | 115.4 | 117.9 | - | - |
| 282.2                                                                                     | 26.5     | 85.5*  | 120.2 | 110.2 | -    | 112.3 | 114.6 | - | - |
| 285.4                                                                                     | 23.4*    | 81.8*  | 117.0 | 110.2 | -    | 111.7 | 113.5 | - | - |
| 295.3                                                                                     | -        | -      | 107.6 | 110.2 | -    | 109.8 | 110.2 | - | - |
| 298.6                                                                                     | -        | -      | 104.4 | 110.2 | 93.9 | 108.9 | 109.5 | - | - |
| 308.4                                                                                     | -        | -      | 94.6  | 110.2 | 93.9 | 106.9 | 107.1 | - | - |
| 315.0                                                                                     | -        | -      | 87.3  | 110.2 | 93.9 | 105.6 | 105.6 | - | - |
| 321.5                                                                                     | -        | -      | -     | 110.2 | 93.9 | 104.3 | 103.8 | - | - |
| 334.6                                                                                     | -        | -      | -     | 101.2 | 93.9 | 101.6 | 100.1 | - | - |
| 341.2                                                                                     | -        | -      | -     | 94.4  | 93.9 | 98.8  | 98.0  | - | - |
| 347.8                                                                                     | -        | -      | -     | -     | 93.9 | 96.3  | 95.8  | - | - |
| 360.9                                                                                     | -        | -      | -     | -     | 93.9 | 88.8  | 91.3  | - | - |
| 364.2                                                                                     | -        | -      | -     | -     | 93.9 | 87.0  | 90.1  | - | - |
| 374.0                                                                                     | -        | -      | -     | -     | -    | 81.4  | 86.2  | - | - |
| 387.1                                                                                     | -        | -      | -     | -     | -    | 70.5  | 76.9  | - | - |
| 400.3                                                                                     | -        | -      | -     | -     | -    | 60.1  | 67.2  | - | - |
| 410.1                                                                                     | -        | -      | -     | -     | -    | 55.3  | 61.1  | - | - |

|  |            |            |            |            |
|--|------------|------------|------------|------------|
|  | 0 lb       | 143,300 lb | 275,600 lb | 363,800 lb |
|  | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb |

SWSL\_1: 36.1 ft – 62.3 ft

SWSL\_3 / SFSL\_3: 36.1 ft – 68.9 ft

SFSL\_3: 496,100 lb + 110,200 lb

|  |            |            |            |            |
|--|------------|------------|------------|------------|
|  | 0 lb       | 143,300 lb | 275,600 lb | 363,800 lb |
|  | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb |

SWSL\_1: 36.1 ft – 62.3 ft

SWSL\_3 / SFSL\_3: 36.1 ft – 68.9 ft

SFSL\_3: 496,100 lb + 110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s    360°    ASME B30.5 |          |          |          |          |          |          |          |          |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|  177.2 ft +  78.7 ft                                                                                                                                                                                                                                                                                                                   |          |          |          |          |          |          |          |          |          |
|  177.2 ft +  118.1 ft                                                                                                                                                                                                                                                                                                                 |          |          |          |          |          |          |          |          |          |
|  0 lb  0 lb - 716,600 lb  15°  15°                                                                                                                                   |          |          |          |          |          |          |          |          |          |
|  0 lb  0 lb - 716,600 lb  15°  15°                                                                                                                                   |          |          |          |          |          |          |          |          |          |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ft       | ft       | ft       | ft       | ft       | ft       | ft       | ft       | ft       |
| 1,000 lb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1,000 lb | 1,000 lb | 1,000 lb | 1,000 lb | 1,000 lb | 1,000 lb | 1,000 lb | 1,000 lb | 1,000 lb |
| 39.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 467.4    | 731.9    | -        | -        | -        | -        | -        | -        | -        |
| 45.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 407.9    | 712.1    | -        | -        | -        | -        | -        | -        | -        |
| 52.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 361.6    | 743.0*   | -        | -        | -        | -        | -        | -        | -        |
| 55.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 341.7    | 734.1*   | -        | -        | -        | -        | -        | -        | -        |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 324.1    | 725.3*   | -        | -        | -        | -        | -        | -        | -        |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 293.2    | 696.7*   | -        | -        | -        | -        | -        | -        | -        |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 266.8    | 670.2*   | -        | -        | -        | -        | -        | -        | -        |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 246.9    | 632.7*   | -        | -        | -        | -        | -        | -        | -        |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 227.1    | 604.1*   | -        | -        | -        | -        | -        | -        | -        |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 205.0    | 520.3*   | -        | -        | -        | -        | -        | -        | -        |
| 95.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 190.7*   | 478.4*   | 617.3    | -        | -        | -        | -        | -        | -        |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 181.9*   | 436.5*   | 597.5    | -        | -        | -        | -        | -        | -        |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -        | 524.7    | -        | -        | -        | -        | -        | -        |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -        | 467.4    | -        | -        | -        | -        | -        | -        |
| 128.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -        | 456.4    | -        | -        | -        | -        | -        | -        |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -        | -        | 403.4    | -        | -        | -        | -        | -        |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -        | -        | 361.6    | -        | -        | -        | -        | -        |
| 157.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -        | -        | 343.9    | -        | -        | -        | -        | -        |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -        | -        | -        | -        | -        | -        | -        | -        |
| 173.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -        | -        | -        | 295.4    | -        | -        | -        | -        |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -        | -        | -        | 288.8    | -        | -        | -        | -        |
| 183.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -        | -        | -        | 275.6    | -        | -        | -        | -        |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -        | -        | -        | -        | 260.1    | -        | -        | -        |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -        | -        | -        | -        | 233.3    | -        | -        | -        |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -        | -        | -        | -        | 206.1    | -        | -        | -        |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -        | -        | -        | -        | 179.1    | -        | -        | -        |
| 236.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -        | -        | -        | -        | 168.7    | -        | -        | -        |

|                                                                                          |            |            |            |
|------------------------------------------------------------------------------------------|------------|------------|------------|
|  0 lb | 143,300 lb | 275,600 lb | 363,800 lb |
| 452,000 lb                                                                               | 540,200 lb | 628,400 lb | 716,600 lb |

SWSL\_1:  36.1 ft – 62.3 ft

SWSL\_3/SFSL\_3:  36.1 ft – 68.9 ft

SFSL\_3:  496,100 lb +  110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

| 363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s 360° ASME B30.5 |         |         |       |       |       |       |       |          |  |
|----------------------------------------------------------------------------|---------|---------|-------|-------|-------|-------|-------|----------|--|
| 177.2 ft +  157.5 ft                                                       |         |         |       |       |       |       |       |          |  |
| 177.2 ft +  196.9 ft                                                       |         |         |       |       |       |       |       |          |  |
| 0 lb  0 lb - 716,600 lb                                                    |         |         |       |       |       |       |       |          |  |
| 0 lb  0 lb - 716,600 lb                                                    |         |         |       |       |       |       |       |          |  |
| ft                                                                         | 87°/85° | 87°/85° | 75°   | 65°   | 55°   | 15°   | 15°   | 1,000 lb |  |
| 55.8                                                                       | 293.2   | 383.6   | -     | -     | -     | -     | -     |          |  |
| 59.1                                                                       | 277.8   | 381.4   | -     | -     | -     | -     | -     |          |  |
| 65.6                                                                       | 253.5   | 377.0   | -     | -     | -     | -     | -     |          |  |
| 72.2                                                                       | 231.5   | 385.8*  | -     | -     | -     | -     | -     |          |  |
| 78.7                                                                       | 212.7   | 383.6*  | -     | -     | -     | -     | -     |          |  |
| 82.0                                                                       | 204.5   | 381.4*  | -     | -     | -     | 374.8 | -     |          |  |
| 85.3                                                                       | 196.2   | 379.2*  | -     | -     | -     | 374.8 | -     |          |  |
| 88.6                                                                       | 189.6   | 378.1*  | -     | -     | -     | 374.8 | 396.8 |          |  |
| 91.9                                                                       | 183.0   | 377.0*  | -     | -     | -     | 374.8 | 396.8 |          |  |
| 98.4                                                                       | 169.8   | 370.4*  | -     | -     | -     | 374.8 | 396.8 |          |  |
| 111.5                                                                      | 148.8   | 359.4*  | -     | -     | -     | 372.6 | 394.6 |          |  |
| 124.7                                                                      | 131.2   | 348.3*  | 361.6 | -     | -     | 368.9 | 390.2 |          |  |
| 137.8                                                                      | 114.6   | 315.3*  | 359.4 | -     | -     | 366.0 | 390.2 |          |  |
| 150.9                                                                      | 101.2   | 269.0*  | 359.4 | -     | -     | 350.5 | 382.1 |          |  |
| 164.0                                                                      | 89.9    | 229.3*  | 335.1 | -     | -     | 327.0 | 361.6 |          |  |
| 167.3                                                                      | 87.5    | 218.6*  | 325.2 | -     | -     | 318.6 | 352.7 |          |  |
| 173.9                                                                      | 79.4*   | 197.3*  | 305.3 | -     | -     | 301.7 | 335.1 |          |  |
| 177.2                                                                      | -       | -       | 295.4 | -     | -     | 293.2 | 326.3 |          |  |
| 180.4                                                                      | -       | -       | 284.9 | 284.4 | -     | 286.6 | 319.3 |          |  |
| 190.3                                                                      | -       | -       | 253.5 | 266.8 | -     | 266.8 | 298.4 |          |  |
| 203.4                                                                      | -       | -       | 215.0 | 246.9 | -     | 242.5 | 273.4 |          |  |
| 216.5                                                                      | -       | -       | -     | 229.3 | -     | 220.5 | 251.3 |          |  |
| 229.7                                                                      | -       | -       | -     | 213.8 | 202.8 | 203.6 | 232.2 |          |  |
| 232.9                                                                      | -       | -       | -     | 209.4 | 199.5 | 199.3 | 227.4 |          |  |
| 242.8                                                                      | -       | -       | -     | -     | 189.6 | 187.8 | 213.5 |          |  |
| 255.9                                                                      | -       | -       | -     | -     | 177.5 | 173.1 | 195.1 |          |  |
| 262.5                                                                      | -       | -       | -     | -     | 173.1 | 165.7 | 184.1 |          |  |
| 269.0                                                                      | -       | -       | -     | -     | -     | 158.4 | 173.4 |          |  |
| 282.2                                                                      | -       | -       | -     | -     | -     | 141.5 | 154.7 |          |  |
| 295.3                                                                      | -       | -       | -     | -     | -     | 124.6 | 140.0 |          |  |
| 308.4                                                                      | -       | -       | -     | -     | -     | 109.9 | 120.6 |          |  |
| 311.7                                                                      | -       | -       | -     | -     | -     | 106.3 | 115.7 |          |  |

|  |            |            |            |            |
|--|------------|------------|------------|------------|
|  | 0 lb       | 143,300 lb | 275,600 lb | 363,800 lb |
|  | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb |

SWSL\_1: 36.1 ft – 62.3 ft

SWSL\_3/SFSL\_3: 36.1 ft – 68.9 ft

SFSL\_3: 496,100 lb + 110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s         360° ASME B30.5 |       |        |       |       |       |       |       |   |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|-------|-------|-------|-------|---|---|
|  177.2 ft +  236.2 ft                                                                                                                                                                                                                                                                                                                    |       |        |       |       |       |       |       |   |   |
| <div> <div>SWSL_1</div> <div>SFSL_1</div> <div>SFSL_3</div> </div> <div> <div>0 lb</div> <div>0 lb - 716,600 lb</div> </div> <div> <div>87°/85°</div> <div>87°/85°</div> <div>75°</div> <div>65°</div> <div>55°</div> <div>15°</div> <div>15°</div> </div> <div>ft</div> <div>1,000 lb</div>                                                                                                                                                                                                               |       |        |       |       |       |       |       |   |   |
| 75.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 192.9 | 207.2  | -     | -     | -     | -     | -     | - | - |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 185.2 | 207.2  | -     | -     | -     | -     | -     | - | - |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 170.9 | 206.1  | -     | -     | -     | -     | -     | - | - |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 157.6 | 206.1* | -     | -     | -     | -     | -     | - | - |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 146.6 | 206.1* | -     | -     | -     | -     | -     | - | - |
| 108.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 132.6 | 204.5* | -     | -     | -     | 202.8 | 211.6 | - | - |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 127.9 | 203.9* | -     | -     | -     | 202.8 | 211.6 | - | - |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 112.4 | 201.7* | -     | -     | -     | 202.1 | 210.9 | - | - |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 100.5 | 198.4* | -     | -     | -     | 200.6 | 209.4 | - | - |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 89.7  | 195.1* | -     | -     | -     | 196.9 | 205.8 | - | - |
| 157.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 85.1  | 193.5* | 181.9 | -     | -     | 195.1 | 203.9 | - | - |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 80.5  | 191.8* | 181.9 | -     | -     | 192.9 | 201.7 | - | - |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 72.3  | 187.4* | 181.9 | -     | -     | 188.5 | 197.3 | - | - |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 65.5  | 184.1* | 181.9 | -     | -     | 184.1 | 192.9 | - | - |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 58.6  | 173.1* | 181.9 | -     | -     | 178.6 | 187.4 | - | - |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 52.5  | 153.2* | 181.9 | -     | -     | 174.2 | 183.0 | - | - |
| 223.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 49.6  | 144.4* | 181.9 | 151.0 | -     | 172.0 | 180.4 | - | - |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 46.7  | 135.6* | 181.9 | 151.0 | -     | 169.8 | 177.8 | - | - |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 42.1  | 116.8* | 167.6 | 151.0 | -     | 165.1 | 173.1 | - | - |
| 249.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 36.8* | 108.2* | 158.7 | 151.0 | -     | 162.5 | 170.9 | - | - |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -      | 149.9 | 151.0 | -     | 159.8 | 168.7 | - | - |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -      | 132.3 | 151.0 | -     | 155.4 | 162.8 | - | - |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -      | 113.5 | 151.0 | 130.1 | 148.4 | 155.8 | - | - |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -      | -     | 143.3 | 130.1 | 138.9 | 147.7 | - | - |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -      | -     | 126.8 | 130.1 | 129.3 | 140.4 | - | - |
| 311.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -      | -     | 122.4 | 128.7 | 126.9 | 138.5 | - | - |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -      | -     | -     | 124.6 | 119.4 | 131.2 | - | - |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -      | -     | -     | 117.9 | 108.0 | 120.2 | - | - |
| 337.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -      | -     | -     | 116.8 | 104.9 | 116.8 | - | - |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -      | -     | -     | -     | 95.7  | 106.9 | - | - |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -      | -     | -     | -     | 85.0  | 96.9  | - | - |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -      | -     | -     | -     | 76.1  | 85.5  | - | - |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -      | -     | -     | -     | 63.9  | 72.3  | - | - |
| 390.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -      | -     | -     | -     | 61.5  | 69.7  | - | - |

|  177.2 ft +  275.6 ft                                                                                                    |       |        |       |       |      |       |       |   |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|-------|------|-------|-------|---|---|
| <div> <div>SWSL_1</div> <div>SFSL_1</div> <div>SFSL_3</div> </div> <div> <div>0 lb</div> <div>0 lb - 716,600 lb</div> </div> <div> <div>87°/85°</div> <div>87°/85°</div> <div>75°</div> <div>65°</div> <div>55°</div> <div>15°</div> <div>15°</div> </div> <div>ft</div> <div>1,000 lb</div> |       |        |       |       |      |       |       |   |   |
| 85.3                                                                                                                                                                                                                                                                                         | 147.7 | 151.0  | -     | -     | -    | -     | -     | - | - |
| 91.9                                                                                                                                                                                                                                                                                         | 145.5 | 149.9  | -     | -     | -    | -     | -     | - | - |
| 98.4                                                                                                                                                                                                                                                                                         | 135.6 | 148.8* | -     | -     | -    | -     | -     | - | - |
| 111.5                                                                                                                                                                                                                                                                                        | 117.9 | 147.7* | -     | -     | -    | -     | -     | - | - |
| 121.4                                                                                                                                                                                                                                                                                        | 107.4 | 146.1* | -     | -     | -    | 145.5 | 151.0 | - | - |
| 124.7                                                                                                                                                                                                                                                                                        | 103.8 | 145.5* | -     | -     | -    | 145.1 | 150.6 | - | - |
| 137.8                                                                                                                                                                                                                                                                                        | 91.5  | 143.3* | -     | -     | -    | 143.3 | 148.8 | - | - |
| 150.9                                                                                                                                                                                                                                                                                        | 81.1  | 141.1* | -     | -     | -    | 141.1 | 145.9 | - | - |
| 164.0                                                                                                                                                                                                                                                                                        | 72.3  | 138.9* | -     | -     | -    | 138.5 | 142.9 | - | - |
| 173.9                                                                                                                                                                                                                                                                                        | 66.4  | 137.2* | 127.9 | -     | -    | 136.3 | 140.7 | - | - |
| 177.2                                                                                                                                                                                                                                                                                        | 64.4  | 136.7* | 127.9 | -     | -    | 135.6 | 140.0 | - | - |
| 190.3                                                                                                                                                                                                                                                                                        | 57.8  | 134.5* | 127.9 | -     | -    | 132.6 | 136.3 | - | - |
| 203.4                                                                                                                                                                                                                                                                                        | 51.6  | 131.2* | 127.9 | -     | -    | 129.3 | 133.0 | - | - |
| 216.5                                                                                                                                                                                                                                                                                        | 46.3  | 129.0* | 127.9 | -     | -    | 125.7 | 130.1 | - | - |
| 229.7                                                                                                                                                                                                                                                                                        | 41.7  | 127.9* | 127.9 | -     | -    | 122.1 | 126.4 | - | - |
| 242.8                                                                                                                                                                                                                                                                                        | 37.5  | 125.7* | 127.9 | -     | -    | 119.4 | 122.7 | - | - |
| 246.1                                                                                                                                                                                                                                                                                        | 36.5  | 122.9* | 127.9 | 104.9 | -    | 118.5 | 121.8 | - | - |
| 255.9                                                                                                                                                                                                                                                                                        | 33.5  | 114.6* | 127.9 | 104.9 | -    | 115.7 | 119.0 | - | - |
| 269.0                                                                                                                                                                                                                                                                                        | 29.5  | 101.4* | 127.9 | 104.9 | -    | 112.8 | 115.7 | - | - |
| 282.2                                                                                                                                                                                                                                                                                        | 26.0  | 88.0*  | 125.7 | 104.9 | -    | 109.9 | 111.9 | - | - |
| 288.7                                                                                                                                                                                                                                                                                        | 21.8* | 80.7*  | 119.0 | 104.9 | -    | 108.4 | 110.3 | - | - |
| 295.3                                                                                                                                                                                                                                                                                        | -     | -      | 112.4 | 104.9 | -    | 106.9 | 108.7 | - | - |
| 308.4                                                                                                                                                                                                                                                                                        | -     | -      | 100.3 | 104.9 | 88.4 | 104.1 | 105.1 | - | - |
| 318.2                                                                                                                                                                                                                                                                                        | -     | -      | 90.2  | 104.9 | 88.4 | 101.9 | 102.6 | - | - |
| 321.5                                                                                                                                                                                                                                                                                        | -     | -      | -     | 104.9 | 88.4 | 101.2 | 101.7 | - | - |
| 334.6                                                                                                                                                                                                                                                                                        | -     | -      | -     | 104.9 | 88.4 | 98.5  | 98.3  | - | - |
| 347.8                                                                                                                                                                                                                                                                                        | -     | -      | -     | 96.8  | 88.4 | 96.0  | 94.9  | - | - |
| 360.9                                                                                                                                                                                                                                                                                        | -     | -      | -     | -     | 88.4 | 90.9  | 91.3  | - | - |
| 374.0                                                                                                                                                                                                                                                                                        | -     | -      | -     | -     | 88.4 | 83.1  | 86.2  | - | - |
| 387.1                                                                                                                                                                                                                                                                                        | -     | -      | -     | -     | -    | 72.8  | 80.3  | - | - |
| 400.3                                                                                                                                                                                                                                                                                        | -     | -      | -     | -     | -    | 65.5  | 72.1  | - | - |
| 413.4                                                                                                                                                                                                                                                                                        | -     | -      | -     | -     | -    | 56.7  | 65.0  | - | - |
| 426.5                                                                                                                                                                                                                                                                                        | -     | -      | -     | -     | -    | 47.0  | 53.8  | - | - |

 0 lb
  143,300 lb
  275,600 lb
  363,800 lb
  452,000 lb
  540,200 lb
  628,400 lb
  716,600 lb

SWSL\_1:  36.1 ft – 62.3 ft

SWSL\_3/SFSL\_3:  36.1 ft – 68.9 ft

SFSL\_3:  496,100 lb +  110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

| 363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s 360° ASME B30.5 |          |        |      |      |      |       |       |   |   |
|----------------------------------------------------------------------------|----------|--------|------|------|------|-------|-------|---|---|
| 177.2 ft +  315.0 ft                                                       |          |        |      |      |      |       |       |   |   |
| 196.9 ft +  78.7 ft                                                        |          |        |      |      |      |       |       |   |   |
| 0 lb  0 lb - 716,600 lb                                                    |          |        |      |      |      |       |       |   |   |
| 87°/85°  87°/85° 75° 65° 55°  15°  15°                                     |          |        |      |      |      |       |       |   |   |
| ft                                                                         | 1,000 lb |        |      |      |      |       |       |   |   |
| 91.9                                                                       | 108.0    | 110.2  | -    | -    | -    | -     | -     | - | - |
| 98.4                                                                       | 107.1    | 109.3  | -    | -    | -    | -     | -     | - | - |
| 111.5                                                                      | 105.2    | 107.6* | -    | -    | -    | -     | -     | - | - |
| 124.7                                                                      | 94.8     | 106.0* | -    | -    | -    | -     | -     | - | - |
| 134.5                                                                      | 85.9     | 104.7* | -    | -    | -    | 104.3 | 106.7 | - | - |
| 137.8                                                                      | 82.9     | 104.3* | -    | -    | -    | 103.8 | 106.3 | - | - |
| 150.9                                                                      | 73.0     | 102.5* | -    | -    | -    | 102.2 | 104.4 | - | - |
| 164.0                                                                      | 64.4     | 100.8* | -    | -    | -    | 100.4 | 102.4 | - | - |
| 177.2                                                                      | 56.9     | 99.0*  | -    | -    | -    | 98.3  | 100.3 | - | - |
| 190.3                                                                      | 50.3     | 97.0*  | 89.7 | -    | -    | 95.8  | 98.3  | - | - |
| 203.4                                                                      | 44.5     | 95.2*  | 89.7 | -    | -    | 93.3  | 95.9  | - | - |
| 216.5                                                                      | 39.2     | 93.3*  | 89.7 | -    | -    | 90.6  | 93.3  | - | - |
| 229.7                                                                      | 34.6     | 91.5*  | 89.5 | -    | -    | 88.2  | 90.8  | - | - |
| 242.8                                                                      | 30.4     | 89.7*  | 89.1 | -    | -    | 85.6  | 88.1  | - | - |
| 255.9                                                                      | 26.7     | 88.2*  | 88.4 | -    | -    | 83.1  | 85.3  | - | - |
| 269.0                                                                      | 23.4     | 86.6*  | 88.0 | 71.0 | -    | 80.6  | 82.2  | - | - |
| 282.2                                                                      | 20.1     | 85.1*  | 87.5 | 71.0 | -    | 78.3  | 79.3  | - | - |
| 295.3                                                                      | 17.4     | 83.3*  | 86.9 | 71.0 | -    | 75.8  | 76.5  | - | - |
| 308.4                                                                      | 14.8     | 75.0*  | 86.6 | 71.0 | -    | 73.6  | 73.7  | - | - |
| 321.5                                                                      | 12.6     | 64.6*  | 86.2 | 71.0 | -    | 71.4  | 70.8  | - | - |
| 324.8                                                                      | 9.3*     | 61.9*  | 85.9 | 71.0 | -    | 70.9  | 70.2  | - | - |
| 334.6                                                                      | -        | -      | 84.9 | 71.0 | -    | 69.2  | 68.3  | - | - |
| 337.9                                                                      | -        | -      | 82.4 | 71.0 | 58.0 | 68.7  | 67.8  | - | - |
| 347.8                                                                      | -        | -      | 75.0 | 71.0 | 58.0 | 67.3  | 66.0  | - | - |
| 357.6                                                                      | -        | -      | 67.0 | 71.0 | 58.0 | 65.9  | 64.2  | - | - |
| 360.9                                                                      | -        | -      | -    | 71.0 | 58.0 | 65.5  | 63.6  | - | - |
| 374.0                                                                      | -        | -      | -    | 71.0 | 58.0 | 63.9  | 61.3  | - | - |
| 387.1                                                                      | -        | -      | -    | 71.0 | 58.0 | 62.3  | 59.1  | - | - |
| 400.3                                                                      | -        | -      | -    | -    | 58.0 | 60.8  | 56.4  | - | - |
| 413.4                                                                      | -        | -      | -    | -    | 58.0 | 59.5  | 54.2  | - | - |
| 426.5                                                                      | -        | -      | -    | -    | -    | 55.3  | 52.1  | - | - |
| 439.6                                                                      | -        | -      | -    | -    | -    | 48.1  | 48.5  | - | - |
| 452.8                                                                      | -        | -      | -    | -    | -    | 39.5  | 44.3  | - | - |
| 465.9                                                                      | -        | -      | -    | -    | -    | 33.1  | 37.3  | - | - |

0 lb 143,300 lb 275,600 lb 363,800 lb 452,000 lb 540,200 lb 628,400 lb 716,600 lb

SWSL\_1: 36.1 ft – 62.3 ft

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4: 496,100 lb + 110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1



| 363,800 lb +  110,200 lb  36.1-68.9 ft                                                                       |        |        |       |       |       |       |   |   |   | 27.6 ft  32.2 ft/s 360° ASME B30.5                                                                           |       |        |       |       |       |   |   |   |   |
|--------------------------------------------------------------------------------------------------------------|--------|--------|-------|-------|-------|-------|---|---|---|--------------------------------------------------------------------------------------------------------------|-------|--------|-------|-------|-------|---|---|---|---|
| 196.9 ft +  118.1 ft                                                                                         |        |        |       |       |       |       |   |   |   | 196.9 ft +  157.5 ft                                                                                         |       |        |       |       |       |   |   |   |   |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4<br>0 lb    0 lb - 716,600 lb<br>87°/85° 87°/85° 75° 65° 55°  15°  15°  15° |        |        |       |       |       |       |   |   |   | SWSL_1   SFSL_1   SFSL_3   SFSL_4<br>0 lb    0 lb - 716,600 lb<br>87°/85° 87°/85° 75° 65° 55°  15°  15°  15° |       |        |       |       |       |   |   |   |   |
| ft                                                                                                           |        |        |       |       |       |       |   |   |   | ft                                                                                                           |       |        |       |       |       |   |   |   |   |
| 1,000 lb                                                                                                     |        |        |       |       |       |       |   |   |   | 1,000 lb                                                                                                     |       |        |       |       |       |   |   |   |   |
| 49.2                                                                                                         | 339.5  | 478.4  | -     | -     | -     | -     | - | - | - | 59.1                                                                                                         | 266.8 | 352.7  | -     | -     | -     | - | - | - | - |
| 52.5                                                                                                         | 319.7  | 476.2  | -     | -     | -     | -     | - | - | - | 65.6                                                                                                         | 242.5 | 348.3  | -     | -     | -     | - | - | - | - |
| 59.1                                                                                                         | 288.8  | 489.4* | -     | -     | -     | -     | - | - | - | 72.2                                                                                                         | 222.7 | 357.1* | -     | -     | -     | - | - | - | - |
| 65.6                                                                                                         | 262.4  | 485.0* | -     | -     | -     | -     | - | - | - | 78.7                                                                                                         | 205.0 | 354.9* | -     | -     | -     | - | - | - | - |
| 68.9                                                                                                         | 251.3  | 481.7* | -     | -     | -     | -     | - | - | - | 82.0                                                                                                         | 197.3 | 352.7* | -     | -     | -     | - | - | - | - |
| 72.2                                                                                                         | 240.3  | 478.4* | -     | -     | -     | -     | - | - | - | 85.3                                                                                                         | 189.6 | 350.5* | -     | -     | -     | - | - | - | - |
| 75.5                                                                                                         | 230.4  | 474.0* | -     | -     | -     | -     | - | - | - | 88.6                                                                                                         | 183.0 | 349.4* | -     | -     | -     | - | - | - | - |
| 78.7                                                                                                         | 220.5  | 469.6* | -     | -     | -     | -     | - | - | - | 91.9                                                                                                         | 176.4 | 348.3* | -     | -     | -     | - | - | - | - |
| 85.3                                                                                                         | 205.0  | 458.6* | -     | -     | -     | -     | - | - | - | 98.4                                                                                                         | 164.2 | 343.9* | -     | -     | -     | - | - | - | - |
| 91.9                                                                                                         | 190.7  | 447.5* | -     | -     | -     | -     | - | - | - | 111.5                                                                                                        | 144.4 | 332.9* | -     | -     | -     | - | - | - | - |
| 98.4                                                                                                         | 177.5  | 436.5* | -     | -     | -     | -     | - | - | - | 124.7                                                                                                        | 127.9 | 321.9* | -     | -     | -     | - | - | - | - |
| 111.5                                                                                                        | 155.4  | 410.1* | -     | -     | -     | -     | - | - | - | 131.2                                                                                                        | 120.7 | 315.3* | 337.3 | -     | -     | - | - | - | - |
| 114.8                                                                                                        | 149.9  | 393.0* | 467.4 | -     | -     | -     | - | - | - | 137.8                                                                                                        | 113.5 | 308.6* | 335.1 | -     | -     | - | - | - | - |
| 124.7                                                                                                        | 133.4  | 341.7* | 456.4 | -     | -     | -     | - | - | - | 150.9                                                                                                        | 100.3 | 269.0* | 335.1 | -     | -     | - | - | - | - |
| 131.2                                                                                                        | 124.6  | 304.2* | 433.2 | -     | -     | -     | - | - | - | 164.0                                                                                                        | 89.1  | 229.3* | 330.7 | -     | -     | - | - | - | - |
| 137.8                                                                                                        | 112.4* | 266.8* | 410.1 | -     | -     | -     | - | - | - | 170.6                                                                                                        | 84.2  | 207.8* | 316.4 | -     | -     | - | - | - | - |
| 150.9                                                                                                        | -      | -      | 370.4 | -     | -     | -     | - | - | - | 177.2                                                                                                        | 76.1* | 186.3* | 302.0 | -     | -     | - | - | - | - |
| 164.0                                                                                                        | -      | -      | 330.7 | -     | -     | -     | - | - | - | 187.0                                                                                                        | -     | -      | 273.9 | 266.8 | -     | - | - | - | - |
| 167.3                                                                                                        | -      | -      | 312.0 | 310.9 | -     | -     | - | - | - | 190.3                                                                                                        | -     | -      | 264.6 | 260.1 | -     | - | - | - | - |
| 170.6                                                                                                        | -      | -      | 293.2 | 302.0 | -     | -     | - | - | - | 203.4                                                                                                        | -     | -      | 224.9 | 240.3 | -     | - | - | - | - |
| 177.2                                                                                                        | -      | -      | -     | 288.8 | -     | -     | - | - | - | 210.0                                                                                                        | -     | -      | 205.0 | 231.5 | -     | - | - | - | - |
| 190.3                                                                                                        | -      | -      | -     | 266.8 | -     | -     | - | - | - | 216.5                                                                                                        | -     | -      | -     | 222.7 | -     | - | - | - | - |
| 203.4                                                                                                        | -      | -      | -     | 246.9 | -     | -     | - | - | - | 229.7                                                                                                        | -     | -      | -     | 208.3 | -     | - | - | - | - |
| 213.3                                                                                                        | -      | -      | -     | -     | 220.5 | -     | - | - | - | 239.5                                                                                                        | -     | -      | -     | 198.4 | 186.3 | - | - | - | - |
| 216.5                                                                                                        | -      | -      | -     | -     | 216.1 | -     | - | - | - | 242.8                                                                                                        | -     | -      | -     | 195.1 | 183.0 | - | - | - | - |
| 229.7                                                                                                        | -      | -      | -     | -     | 201.7 | -     | - | - | - | 255.9                                                                                                        | -     | -      | -     | -     | 172.0 | - | - | - | - |
| 232.9                                                                                                        | -      | -      | -     | -     | 198.4 | -     | - | - | - | 269.0                                                                                                        | -     | -      | -     | -     | 162.0 | - | - | - | - |
| 242.8                                                                                                        | -      | -      | -     | -     | -     | 182.2 | - | - | - | 272.3                                                                                                        | -     | -      | -     | -     | 159.8 | - | - | - | - |
| 255.9                                                                                                        | -      | -      | -     | -     | -     | 167.6 | - | - | - | 282.2                                                                                                        | -     | -      | -     | -     | -     | - | - | - | - |
| 269.0                                                                                                        | -      | -      | -     | -     | -     | 147.7 | - | - | - | 295.3                                                                                                        | -     | -      | -     | -     | -     | - | - | - | - |
| 282.2                                                                                                        | -      | -      | -     | -     | -     | 129.0 | - | - | - | 308.4                                                                                                        | -     | -      | -     | -     | -     | - | - | - | - |
| 292.0                                                                                                        | -      | -      | -     | -     | -     | 119.0 | - | - | - | 321.5                                                                                                        | -     | -      | -     | -     | -     | - | - | - | - |
|                                                                                                              |        |        |       |       |       |       |   |   |   | 331.4                                                                                                        | -     | -      | -     | -     | -     | - | - | - | - |
|                                                                                                              |        |        |       |       |       |       |   |   |   |                                                                                                              |       |        |       |       |       |   |   |   |   |

0 lb    143,300 lb    275,600 lb    363,800 lb    452,000 lb    540,200 lb    628,400 lb    716,600 lb

SWSL\_1: 36.1 ft – 62.3 ft

SWSL\_3 / SFSL\_3, SWSL\_4 / SFSL\_4: 36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4: 496,100 lb + 110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

| 363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s 360° ASME B30.5                                                                                                                                                      |       |        |       |      |      |       |       |       |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|------|------|-------|-------|-------|---|
| 196.9 ft +  275.6 ft                                                                                                                                                                                                            |       |        |       |      |      |       |       |       |   |
| <div> <div>SWSL_1</div> <div>SFSL_1</div> <div>SFSL_3</div> <div>SFSL_4</div> </div> <div>  0 lb  0 lb - 716,600 lb           </div> <div>  87°/85°  87°/85° 75° 65° 55°  15°  15°  15°           </div> <div>ft 1,000 lb</div> |       |        |       |      |      |       |       |       |   |
| 85.3                                                                                                                                                                                                                            | 140.0 | 143.3  | -     | -    | -    | -     | -     | -     | - |
| 91.9                                                                                                                                                                                                                            | 138.9 | 142.2  | -     | -    | -    | -     | -     | -     | - |
| 98.4                                                                                                                                                                                                                            | 130.1 | 141.1  | -     | -    | -    | -     | -     | -     | - |
| 111.5                                                                                                                                                                                                                           | 113.5 | 140.0* | -     | -    | -    | -     | -     | -     | - |
| 124.7                                                                                                                                                                                                                           | 99.6  | 138.9* | -     | -    | -    | 137.8 | 147.7 | 149.9 | - |
| 137.8                                                                                                                                                                                                                           | 88.0  | 136.7* | -     | -    | -    | 136.7 | 146.6 | 147.7 | - |
| 150.9                                                                                                                                                                                                                           | 77.8  | 135.6* | -     | -    | -    | 135.2 | 144.4 | 145.5 | - |
| 164.0                                                                                                                                                                                                                           | 69.2  | 133.4* | -     | -    | -    | 133.0 | 141.8 | 142.9 | - |
| 177.2                                                                                                                                                                                                                           | 61.7  | 131.2* | -     | -    | -    | 130.1 | 138.9 | 140.0 | - |
| 180.4                                                                                                                                                                                                                           | 60.1  | 130.6* | 121.3 | -    | -    | 129.5 | 138.2 | 139.3 | - |
| 190.3                                                                                                                                                                                                                           | 55.1  | 129.0* | 121.3 | -    | -    | 127.9 | 136.0 | 137.1 | - |
| 203.4                                                                                                                                                                                                                           | 49.4  | 125.7* | 121.3 | -    | -    | 124.9 | 133.0 | 134.1 | - |
| 216.5                                                                                                                                                                                                                           | 44.3  | 124.6* | 121.3 | -    | -    | 121.3 | 130.1 | 131.2 | - |
| 229.7                                                                                                                                                                                                                           | 39.7  | 122.4* | 121.3 | -    | -    | 118.5 | 126.4 | 127.5 | - |
| 242.8                                                                                                                                                                                                                           | 35.5  | 120.2* | 121.3 | -    | -    | 115.4 | 122.7 | 123.8 | - |
| 252.6                                                                                                                                                                                                                           | 32.7  | 115.2* | 121.3 | 99.4 | -    | 113.2 | 120.0 | 121.1 | - |
| 255.9                                                                                                                                                                                                                           | 31.7  | 113.5* | 121.3 | 99.4 | -    | 112.4 | 119.0 | 120.2 | - |
| 269.0                                                                                                                                                                                                                           | 28.4  | 100.1* | 121.3 | 99.4 | -    | 109.8 | 116.3 | 116.4 | - |
| 282.2                                                                                                                                                                                                                           | 25.4  | 86.9*  | 121.3 | 99.4 | -    | 106.9 | 112.9 | 113.1 | - |
| 288.7                                                                                                                                                                                                                           | 20.7* | 79.6*  | 118.5 | 99.4 | -    | 105.5 | 111.1 | 111.6 | - |
| 295.3                                                                                                                                                                                                                           | -     | -      | 115.7 | 99.4 | -    | 104.1 | 109.3 | 110.0 | - |
| 308.4                                                                                                                                                                                                                           | -     | -      | 102.7 | 99.4 | -    | 101.0 | 105.7 | 106.0 | - |
| 321.5                                                                                                                                                                                                                           | -     | -      | 89.3  | 99.4 | 83.6 | 98.3  | 102.4 | 102.7 | - |
| 324.8                                                                                                                                                                                                                           | -     | -      | 85.8  | 99.4 | 83.6 | 97.7  | 101.6 | 102.0 | - |
| 334.6                                                                                                                                                                                                                           | -     | -      | -     | 99.4 | 83.6 | 95.7  | 99.2  | 99.6  | - |
| 347.8                                                                                                                                                                                                                           | -     | -      | -     | 99.4 | 83.6 | 93.1  | 96.0  | 96.5  | - |
| 357.6                                                                                                                                                                                                                           | -     | -      | -     | 92.8 | 83.6 | 90.9  | 93.8  | 94.2  | - |
| 360.9                                                                                                                                                                                                                           | -     | -      | -     | -    | 83.6 | 89.9  | 93.0  | 93.5  | - |
| 374.0                                                                                                                                                                                                                           | -     | -      | -     | -    | 83.6 | 85.8  | 89.7  | 90.4  | - |
| 387.1                                                                                                                                                                                                                           | -     | -      | -     | -    | 83.6 | 76.7  | 83.8  | 84.4  | - |
| 400.3                                                                                                                                                                                                                           | -     | -      | -     | -    | -    | 67.1  | 76.4  | 76.4  | - |
| 413.4                                                                                                                                                                                                                           | -     | -      | -     | -    | -    | 57.8  | 67.2  | 66.4  | - |
| 426.5                                                                                                                                                                                                                           | -     | -      | -     | -    | -    | 50.7  | 59.7  | 58.7  | - |
| 439.6                                                                                                                                                                                                                           | -     | -      | -     | -    | -    | 42.3  | 50.7  | 49.8  | - |
| 442.9                                                                                                                                                                                                                           | -     | -      | -     | -    | -    | 39.9  | 48.1  | 47.2  | - |

| 196.9 ft +  315.0 ft                                                                                                                                                                                                            |       |        |      |      |      |      |       |       |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|------|------|------|------|-------|-------|---|
| <div> <div>SWSL_1</div> <div>SFSL_1</div> <div>SFSL_3</div> <div>SFSL_4</div> </div> <div>  0 lb  0 lb - 716,600 lb           </div> <div>  87°/85°  87°/85° 75° 65° 55°  15°  15°  15°           </div> <div>ft 1,000 lb</div> |       |        |      |      |      |      |       |       |   |
| 95.1                                                                                                                                                                                                                            | 102.5 | 104.7  | -    | -    | -    | -    | -     | -     | - |
| 98.4                                                                                                                                                                                                                            | 102.3 | 104.3  | -    | -    | -    | -    | -     | -     | - |
| 111.5                                                                                                                                                                                                                           | 100.3 | 102.7* | -    | -    | -    | -    | -     | -     | - |
| 124.7                                                                                                                                                                                                                           | 90.8  | 101.4* | -    | -    | -    | -    | -     | -     | - |
| 137.8                                                                                                                                                                                                                           | 79.4  | 99.9*  | -    | -    | -    | 99.4 | 105.6 | 106.5 | - |
| 150.9                                                                                                                                                                                                                           | 69.9  | 98.3*  | -    | -    | -    | 98.1 | 103.9 | 104.6 | - |
| 164.0                                                                                                                                                                                                                           | 61.5  | 96.8*  | -    | -    | -    | 96.5 | 102.1 | 102.6 | - |
| 177.2                                                                                                                                                                                                                           | 54.2  | 95.0*  | -    | -    | -    | 94.6 | 100.1 | 100.5 | - |
| 190.3                                                                                                                                                                                                                           | 47.8  | 93.3*  | -    | -    | -    | 92.4 | 97.7  | 98.3  | - |
| 196.9                                                                                                                                                                                                                           | 45.0  | 92.4*  | 85.3 | -    | -    | 91.3 | 96.6  | 97.2  | - |
| 203.4                                                                                                                                                                                                                           | 42.1  | 91.5*  | 85.3 | -    | -    | 90.1 | 95.3  | 96.0  | - |
| 216.5                                                                                                                                                                                                                           | 37.3  | 89.7*  | 85.3 | -    | -    | 87.7 | 92.8  | 93.7  | - |
| 229.7                                                                                                                                                                                                                           | 32.6  | 88.0*  | 85.3 | -    | -    | 85.4 | 90.3  | 91.1  | - |
| 242.8                                                                                                                                                                                                                           | 28.7  | 86.4*  | 85.3 | -    | -    | 83.0 | 87.7  | 88.4  | - |
| 255.9                                                                                                                                                                                                                           | 24.9  | 84.9*  | 85.1 | -    | -    | 80.5 | 85.1  | 85.8  | - |
| 269.0                                                                                                                                                                                                                           | 21.6  | 83.3*  | 84.7 | -    | -    | 78.3 | 82.5  | 83.0  | - |
| 275.6                                                                                                                                                                                                                           | 20.1  | 82.6*  | 84.5 | 67.0 | -    | 77.2 | 81.1  | 81.6  | - |
| 282.2                                                                                                                                                                                                                           | 18.5  | 81.8*  | 84.4 | 67.0 | -    | 76.0 | 79.7  | 80.2  | - |
| 295.3                                                                                                                                                                                                                           | 15.7  | 80.2*  | 84.0 | 67.0 | -    | 73.9 | 76.9  | 77.4  | - |
| 308.4                                                                                                                                                                                                                           | 13.2  | 73.9*  | 83.8 | 67.0 | -    | 71.7 | 74.1  | 74.6  | - |
| 321.5                                                                                                                                                                                                                           | 11.0  | 63.5*  | 83.6 | 67.0 | -    | 69.5 | 71.4  | 71.8  | - |
| 328.1                                                                                                                                                                                                                           | -     | 57.8*  | 83.2 | 67.0 | -    | 68.5 | 70.0  | 70.4  | - |
| 334.6                                                                                                                                                                                                                           | -     | -      | 83.1 | 67.0 | -    | 67.5 | 68.6  | 69.0  | - |
| 347.8                                                                                                                                                                                                                           | -     | -      | 76.7 | 67.0 | 54.2 | 65.6 | 66.4  | 66.8  | - |
| 360.9                                                                                                                                                                                                                           | -     | -      | 66.1 | 67.0 | 54.2 | 63.7 | 64.2  | 64.6  | - |
| 374.0                                                                                                                                                                                                                           | -     | -      | -    | 67.0 | 54.2 | 61.9 | 61.9  | 62.4  | - |
| 387.1                                                                                                                                                                                                                           | -     | -      | -    | 67.0 | 54.2 | 60.5 | 59.9  | 60.4  | - |
| 393.7                                                                                                                                                                                                                           | -     | -      | -    | 67.0 | 54.2 | 59.7 | 58.9  | 59.3  | - |
| 400.3                                                                                                                                                                                                                           | -     | -      | -    | -    | 54.2 | 59.0 | 57.7  | 58.0  | - |
| 413.4                                                                                                                                                                                                                           | -     | -      | -    | -    | 54.2 | 57.5 | 55.3  | 55.6  | - |
| 423.2                                                                                                                                                                                                                           | -     | -      | -    | -    | 54.2 | 55.6 | 52.7  | 53.0  | - |
| 426.5                                                                                                                                                                                                                           | -     | -      | -    | -    | -    | 54.9 | 52.0  | 52.2  | - |
| 439.6                                                                                                                                                                                                                           | -     | -      | -    | -    | -    | 48.1 | 49.0  | 48.9  | - |
| 452.8                                                                                                                                                                                                                           | -     | -      | -    | -    | -    | 42.3 | 46.1  | 45.6  | - |
| 465.9                                                                                                                                                                                                                           | -     | -      | -    | -    | -    | 34.8 | 39.2  | 38.7  | - |
| 479.0                                                                                                                                                                                                                           | -     | -      | -    | -    | -    | 26.8 | 34.3  | 33.1  | - |
| 482.3                                                                                                                                                                                                                           | -     | -      | -    | -    | -    | 24.7 | 32.2  | 31.3  | - |

0 lb 
 143,300 lb 
 275,600 lb 
 363,800 lb 
 452,000 lb 
 540,200 lb 
 628,400 lb 
 716,600 lb

SWSL\_1: 36.1 ft – 62.3 ft

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4: 496,100 lb + 110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

| 363,800 lb +  110,200 lb          36.1-68.9 ft          27.6 ft          32.2 ft/s         360° ASME B30.5                                                                                                                                                                                                             |        |        |       |       |       |       |       |       |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|---|
| 216.5 ft +  78.7 ft                                                                                                                                                                                                                                                                                                    |        |        |       |       |       |       |       |       |   |
| <div> <div>SWSL_1</div> <div>SFSL_1</div> <div>SFSL_3</div> <div>SFSL_4</div> </div> <div>  0 lb            0 lb - 716,600 lb         </div> <div>  87°/85°            87°/85°           75°           65°           55°            15°            15°            15°         </div> <div>ft</div> <div>1,000 lb</div> |        |        |       |       |       |       |       |       |   |
| 42.7                                                                                                                                                                                                                                                                                                                   | 396.8  | 568.8  | -     | -     | -     | -     | -     | -     | - |
| 45.9                                                                                                                                                                                                                                                                                                                   | 372.6  | 562.2  | -     | -     | -     | -     | -     | -     | - |
| 52.5                                                                                                                                                                                                                                                                                                                   | 332.9  | 588.6* | -     | -     | -     | -     | -     | -     | - |
| 59.1                                                                                                                                                                                                                                                                                                                   | 299.8  | 575.4* | -     | -     | -     | 562.2 | -     | 659.2 | - |
| 62.3                                                                                                                                                                                                                                                                                                                   | 284.4  | 568.8* | -     | -     | -     | 562.2 | 630.5 | 659.2 | - |
| 65.6                                                                                                                                                                                                                                                                                                                   | 271.2  | 562.2* | -     | -     | -     | 562.2 | 630.5 | 659.2 | - |
| 72.2                                                                                                                                                                                                                                                                                                                   | 249.1  | 544.5* | -     | -     | -     | 562.2 | 623.9 | 654.8 | - |
| 78.7                                                                                                                                                                                                                                                                                                                   | 229.3  | 529.1* | -     | -     | -     | 555.6 | 619.5 | 654.8 | - |
| 85.3                                                                                                                                                                                                                                                                                                                   | 213.8  | 511.5* | -     | -     | -     | 555.6 | 615.1 | 650.4 | - |
| 91.9                                                                                                                                                                                                                                                                                                                   | 199.5  | 493.8* | -     | -     | -     | 551.2 | 610.7 | 646.0 | - |
| 95.1                                                                                                                                                                                                                                                                                                                   | 194.0  | 479.5* | -     | -     | -     | 544.5 | 608.5 | 642.6 | - |
| 98.4                                                                                                                                                                                                                                                                                                                   | 178.6* | 471.8* | -     | -     | -     | 544.5 | 608.5 | 641.5 | - |
| 101.7                                                                                                                                                                                                                                                                                                                  | 172.0* | 432.1* | -     | -     | -     | 531.3 | 593.4 | 621.0 | - |
| 105.0                                                                                                                                                                                                                                                                                                                  | -      | -      | 546.7 | -     | -     | 520.3 | 578.3 | 600.4 | - |
| 111.5                                                                                                                                                                                                                                                                                                                  | -      | -      | 513.7 | -     | -     | 498.2 | 548.2 | 559.2 | - |
| 124.7                                                                                                                                                                                                                                                                                                                  | -      | -      | 458.6 | -     | -     | 449.7 | 489.4 | 489.4 | - |
| 137.8                                                                                                                                                                                                                                                                                                                  | -      | -      | 412.3 | -     | -     | 396.8 | 432.1 | 432.1 | - |
| 150.9                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | -     | -     | 352.7 | 386.5 | 388.0 | - |
| 154.2                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | 341.7 | -     | 341.7 | 375.2 | 377.0 | - |
| 164.0                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | 317.5 | -     | 314.5 | 346.9 | 348.3 | - |
| 173.9                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | 297.6 | -     | 290.3 | 321.5 | 321.9 | - |
| 177.2                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | -     | -     | 282.2 | 313.1 | 313.1 | - |
| 190.3                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | -     | -     | 255.7 | 285.1 | 285.1 | - |
| 196.9                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | -     | 242.5 | 242.5 | 271.2 | 271.2 | - |
| 203.4                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | -     | 233.7 | 231.5 | 259.4 | 259.4 | - |
| 206.7                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | -     | 229.3 | 226.0 | 253.5 | 253.5 | - |
| 216.5                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | -     | -     | 210.5 | 235.9 | 235.9 | - |
| 229.7                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | -     | -     | 192.9 | 217.5 | 217.5 | - |
| 242.8                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | -     | -     | 174.9 | 195.5 | 195.5 | - |
| 255.9                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | -     | -     | 156.5 | 169.8 | 169.8 | - |
| 269.0                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | -     | -     | 136.2 | 150.4 | 149.0 | - |
| 272.3                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | -     | -     | 133.4 | 145.5 | 144.4 | - |

| 216.5 ft +  118.1 ft                                                                                                                                                                                                                                                                                                   |        |        |       |       |   |       |       |       |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|-------|-------|---|-------|-------|-------|-------|
| <div> <div>SWSL_1</div> <div>SFSL_1</div> <div>SFSL_3</div> <div>SFSL_4</div> </div> <div>  0 lb            0 lb - 716,600 lb         </div> <div>  87°/85°            87°/85°           75°           65°           55°            15°            15°            15°         </div> <div>ft</div> <div>1,000 lb</div> |        |        |       |       |   |       |       |       |       |
| 49.2                                                                                                                                                                                                                                                                                                                   | 324.1  | 425.5  | -     | -     | - | -     | -     | -     | -     |
| 52.5                                                                                                                                                                                                                                                                                                                   | 308.6  | 421.1  | -     | -     | - | -     | -     | -     | -     |
| 59.1                                                                                                                                                                                                                                                                                                                   | 277.8  | 414.5  | -     | -     | - | -     | -     | -     | -     |
| 65.6                                                                                                                                                                                                                                                                                                                   | 251.3  | 429.9* | -     | -     | - | -     | -     | -     | -     |
| 72.2                                                                                                                                                                                                                                                                                                                   | 231.5  | 423.3* | -     | -     | - | -     | 414.5 | -     | -     |
| 78.7                                                                                                                                                                                                                                                                                                                   | 213.8  | 416.7* | -     | -     | - | -     | 414.5 | 471.8 | 489.4 |
| 85.3                                                                                                                                                                                                                                                                                                                   | 198.4  | 407.9* | -     | -     | - | -     | 414.5 | 471.8 | 485.0 |
| 91.9                                                                                                                                                                                                                                                                                                                   | 184.1  | 399.0* | -     | -     | - | -     | 414.5 | 465.2 | 485.0 |
| 98.4                                                                                                                                                                                                                                                                                                                   | 172.0  | 388.0* | -     | -     | - | -     | 414.5 | 465.2 | 480.6 |
| 111.5                                                                                                                                                                                                                                                                                                                  | 152.1  | 368.2* | -     | -     | - | -     | 410.1 | 458.6 | 476.2 |
| 118.1                                                                                                                                                                                                                                                                                                                  | 142.7  | 359.4* | 412.3 | -     | - | -     | 410.1 | 458.6 | 476.2 |
| 124.7                                                                                                                                                                                                                                                                                                                  | 133.4  | 350.5* | 412.3 | -     | - | -     | 402.7 | 448.3 | 461.5 |
| 131.2                                                                                                                                                                                                                                                                                                                  | 124.6  | 315.3* | 407.9 | -     | - | -     | 402.0 | 442.4 | 449.0 |
| 137.8                                                                                                                                                                                                                                                                                                                  | 111.3* | 280.0* | 405.7 | -     | - | -     | 401.2 | 436.5 | 436.5 |
| 141.1                                                                                                                                                                                                                                                                                                                  | 108.5* | 260.1* | 396.3 | -     | - | -     | 390.6 | 425.5 | 425.1 |
| 150.9                                                                                                                                                                                                                                                                                                                  | -      | -      | 368.2 | -     | - | -     | 358.6 | 392.4 | 391.0 |
| 164.0                                                                                                                                                                                                                                                                                                                  | -      | -      | 332.9 | -     | - | -     | 320.4 | 352.7 | 351.3 |
| 177.2                                                                                                                                                                                                                                                                                                                  | -      | -      | 288.8 | 284.4 | - | -     | 286.6 | 317.5 | 317.5 |
| 190.3                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | 262.4 | - | -     | 258.7 | 289.5 | 288.1 |
| 203.4                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | 242.5 | - | -     | 234.4 | 263.8 | 262.4 |
| 213.3                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | 229.3 | - | -     | 219.0 | 246.2 | 245.8 |
| 216.5                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | -     | - | -     | 213.8 | 240.3 | 240.3 |
| 223.1                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | -     | - | 203.9 | 205.0 | 231.1 | 230.8 |
| 229.7                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | -     | - | 197.3 | 196.2 | 221.9 | 221.2 |
| 242.8                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | -     | - | 184.1 | 180.0 | 203.9 | 203.9 |
| 246.1                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | -     | - | 181.9 | 176.4 | 200.1 | 199.8 |
| 255.9                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | -     | - | -     | 165.3 | 188.5 | 187.4 |
| 269.0                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | -     | - | -     | 152.9 | 170.9 | 169.8 |
| 282.2                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | -     | - | -     | 138.2 | 152.1 | 151.0 |
| 295.3                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | -     | - | -     | 121.3 | 133.4 | 132.3 |
| 308.4                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | -     | - | -     | 108.5 | 119.0 | 117.9 |

0 lb
 143,300 lb
 275,600 lb
 363,800 lb
 452,000 lb
 540,200 lb
 628,400 lb
 716,600 lb

SWSL\_1: 36.1 ft – 62.3 ft

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4: 496,100 lb + 110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s           360° ASME B30.5                                                                                                                                                                                                                                                                                                                                                                                                  |       |        |       |       |       |       |       |       |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|-------|-------|-------|-------|-------|---|
|  216.5 ft +  157.5 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |        |       |       |       |       |       |       |   |
| <div> <div>SWSL_1</div> <div>SFSL_1</div> <div>SFSL_3</div> <div>SFSL_4</div> </div> <div>  0 lb            0 lb - 716,600 lb         </div> <div>  87°/85°            87°/85°           75°           65°           55°            15°            15°            15°         </div> <div>ft</div> <div>1,000 lb</div> |       |        |       |       |       |       |       |       |   |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 257.9 | 315.3  | -     | -     | -     | -     | -     | -     | - |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 233.7 | 313.1  | -     | -     | -     | -     | -     | -     | - |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 215.0 | 319.7* | -     | -     | -     | -     | -     | -     | - |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 198.4 | 317.5* | -     | -     | -     | -     | -     | -     | - |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 183.0 | 315.3* | -     | -     | -     | 308.6 | -     | 359.4 | - |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 170.9 | 310.9* | -     | -     | -     | 308.6 | 350.5 | 359.4 | - |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 158.7 | 306.4* | -     | -     | -     | 308.6 | 350.5 | 359.4 | - |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 140.0 | 297.6* | -     | -     | -     | 308.6 | 350.5 | 359.4 | - |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 124.6 | 286.6* | -     | -     | -     | 306.4 | 346.1 | 355.7 | - |
| 134.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 114.6 | 278.3* | 299.8 | -     | -     | 306.4 | 346.1 | 354.9 | - |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 111.3 | 275.6* | 299.8 | -     | -     | 306.4 | 346.1 | 354.9 | - |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100.5 | 264.6* | 299.8 | -     | -     | 301.3 | 339.5 | 347.6 | - |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 89.3  | 235.9* | 299.8 | -     | -     | 294.7 | 333.6 | 337.3 | - |
| 170.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 84.4  | 215.5* | 296.5 | -     | -     | 291.7 | 327.8 | 328.5 | - |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 75.6* | 195.1* | 295.4 | -     | -     | 288.8 | 321.9 | 319.7 | - |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 275.6 | -     | -     | 262.4 | 293.9 | 291.7 | - |
| 196.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 246.9 | -     | -     | 249.1 | 280.0 | 277.8 | - |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 244.7 | 238.1 | -     | 238.5 | 268.2 | 266.0 | - |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 202.8 | 220.5 | -     | 217.2 | 244.7 | 242.5 | - |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | 205.0 | -     | 198.4 | 226.3 | 224.9 | - |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | 191.8 | -     | 182.2 | 208.3 | 207.2 | - |
| 249.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | 186.3 | -     | 174.9 | 199.5 | 199.2 | - |
| 252.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | 170.9 | 171.2 | 195.7 | 195.5 | - |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | 167.6 | 167.6 | 191.8 | 191.8 | - |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | 157.6 | 155.1 | 177.8 | 177.8 | - |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | 148.8 | 143.3 | 164.6 | 164.2 | - |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | -     | 132.3 | 152.1 | 151.0 | - |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | -     | 121.3 | 135.2 | 134.1 | - |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | -     | 108.4 | 119.0 | 117.9 | - |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | -     | 93.7  | 105.8 | 104.5 | - |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | -     | 83.8  | 92.4  | 91.5  | - |

|  216.5 ft +  196.9 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |        |       |       |       |       |       |       |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|-------|-------|-------|-------|-------|---|
| <div> <div>SWSL_1</div> <div>SFSL_1</div> <div>SFSL_3</div> <div>SFSL_4</div> </div> <div>  0 lb            0 lb - 716,600 lb         </div> <div>  87°/85°            87°/85°           75°           65°           55°            15°            15°            15°         </div> <div>ft</div> <div>1,000 lb</div> |       |        |       |       |       |       |       |       |   |
| 68.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 208.3 | 235.9  | -     | -     | -     | -     | -     | -     | - |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 199.5 | 235.9  | -     | -     | -     | -     | -     | -     | - |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 184.1 | 233.7  | -     | -     | -     | -     | -     | -     | - |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 170.9 | 238.1* | -     | -     | -     | -     | -     | -     | - |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 158.7 | 235.9* | -     | -     | -     | -     | -     | -     | - |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 147.7 | 233.7* | -     | -     | -     | 231.5 | 260.1 | 266.8 | - |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 129.0 | 231.5* | -     | -     | -     | 231.5 | 260.1 | 266.8 | - |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 114.6 | 224.9* | -     | -     | -     | 230.8 | 260.1 | 266.8 | - |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 102.3 | 220.5* | -     | -     | -     | 229.3 | 260.1 | 266.8 | - |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 91.7  | 215.0* | 218.3 | -     | -     | 229.3 | 258.7 | 263.8 | - |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 82.9  | 208.3* | 218.3 | -     | -     | 227.1 | 255.0 | 259.4 | - |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 75.2  | 201.7* | 218.3 | -     | -     | 222.7 | 249.1 | 253.5 | - |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 68.3  | 189.6* | 218.3 | -     | -     | 216.8 | 243.2 | 246.2 | - |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 61.7  | 163.1* | 217.2 | -     | -     | 211.6 | 235.9 | 238.1 | - |
| 206.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 60.2  | 156.3* | 216.9 | -     | -     | 210.5 | 233.7 | 235.9 | - |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 52.0* | 135.6* | 216.1 | 187.4 | -     | 207.2 | 227.1 | 229.3 | - |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | 196.2 | 187.4 | -     | 199.9 | 217.5 | 219.7 | - |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | 170.9 | 187.4 | -     | 184.5 | 206.6 | 207.5 | - |
| 252.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | 151.0 | 178.3 | -     | 173.4 | 197.3 | 196.2 | - |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | 175.3 | -     | 169.8 | 194.0 | 192.9 | - |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | 164.2 | -     | 156.5 | 180.0 | 178.9 | - |
| 278.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | 157.6 | 145.5 | 147.2 | 169.9 | 168.8 | - |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | 155.4 | 143.3 | 144.4 | 166.8 | 165.7 | - |
| 288.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | 151.0 | 139.3 | 138.9 | 160.6 | 159.5 | - |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | -     | 135.6 | 133.4 | 154.3 | 153.2 | - |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | -     | 127.9 | 123.5 | 144.0 | 142.9 | - |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | -     | 121.3 | 114.7 | 132.3 | 131.5 | - |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | -     | -     | 106.0 | 119.0 | 119.0 | - |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | -     | -     | 94.6  | 106.0 | 105.2 | - |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | -     | -     | 82.7  | 92.7  | 91.6  | - |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | -     | -     | 72.8  | 82.2  | 80.9  | - |
| 383.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | -     | -     | 65.9  | 74.1  | 73.0  | - |

 0 lb
  143,300 lb
  275,600 lb
  363,800 lb
  452,000 lb
  540,200 lb
  628,400 lb
  716,600 lb

SWSL\_1:  36.1 ft – 62.3 ft

SWSL\_3 / SFSL\_3, SWSL\_4 / SFSL\_4:  36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4:  496,100 lb +  110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

| 363,800 lb +  110,200 lb  36.1-68.9 ft |       |        |       |       |                   |       |       |       |   | 27.6 ft  32.2 ft/s 360° ASME B30.5 |       |        |       |      |                   |       |       |       |   |
|----------------------------------------|-------|--------|-------|-------|-------------------|-------|-------|-------|---|------------------------------------|-------|--------|-------|------|-------------------|-------|-------|-------|---|
| 216.5 ft +  236.2 ft                   |       |        |       |       |                   |       |       |       |   | 216.5 ft +  275.6 ft               |       |        |       |      |                   |       |       |       |   |
| SWSL_1                                 |       |        |       |       | SFSL_1            |       |       |       |   | SWSL_1                             |       |        |       |      | SFSL_1            |       |       |       |   |
| 0 lb                                   |       |        |       |       | 0 lb - 716,600 lb |       |       |       |   | 0 lb                               |       |        |       |      | 0 lb - 716,600 lb |       |       |       |   |
| 87°/85° 87°/85° 75° 65° 55°            |       |        |       |       | 15° 15° 15°       |       |       |       |   | 87°/85° 87°/85° 75° 65° 55°        |       |        |       |      | 15° 15° 15°       |       |       |       |   |
| ft                                     |       |        |       |       | 1,000 lb          |       |       |       |   | ft                                 |       |        |       |      | 1,000 lb          |       |       |       |   |
| 78.7                                   | 170.9 | 177.5  | -     | -     | -                 | -     | -     | -     | - | 85.3                               | 129.0 | 132.3  | -     | -    | -                 | -     | -     | -     | - |
| 85.3                                   | 157.6 | 176.4  | -     | -     | -                 | -     | -     | -     | - | 91.9                               | 129.0 | 131.2  | -     | -    | -                 | -     | -     | -     | - |
| 91.9                                   | 146.6 | 178.6* | -     | -     | -                 | -     | -     | -     | - | 98.4                               | 125.7 | 130.1  | -     | -    | -                 | -     | -     | -     | - |
| 98.4                                   | 136.7 | 177.5* | -     | -     | -                 | -     | -     | -     | - | 111.5                              | 109.6 | 130.1* | -     | -    | -                 | -     | -     | -     | - |
| 111.5                                  | 119.0 | 176.4* | -     | -     | -                 | 174.2 | 194.0 | 197.3 | - | 124.7                              | 95.9  | 129.0* | -     | -    | -                 | 127.9 | 141.1 | 143.3 | - |
| 124.7                                  | 105.4 | 174.2* | -     | -     | -                 | 174.2 | 194.0 | 197.3 | - | 137.8                              | 84.4  | 127.9* | -     | -    | -                 | 126.8 | 140.0 | 142.2 | - |
| 137.8                                  | 93.5  | 170.9* | -     | -     | -                 | 174.2 | 194.0 | 197.3 | - | 150.9                              | 74.7  | 125.7* | -     | -    | -                 | 126.0 | 138.5 | 140.7 | - |
| 150.9                                  | 83.3  | 167.6* | -     | -     | -                 | 172.0 | 191.8 | 194.4 | - | 164.0                              | 66.6  | 123.5* | -     | -    | -                 | 124.6 | 136.3 | 138.5 | - |
| 164.0                                  | 74.7  | 164.2* | -     | -     | -                 | 169.8 | 189.2 | 191.4 | - | 177.2                              | 59.3  | 121.3* | -     | -    | -                 | 122.4 | 133.4 | 135.6 | - |
| 167.3                                  | 72.9  | 163.4* | 155.4 | -     | -                 | 169.2 | 188.5 | 190.7 | - | 183.7                              | 56.1  | 120.2* | 111.3 | -    | -                 | 121.3 | 132.3 | 134.1 | - |
| 177.2                                  | 67.2  | 160.9* | 155.4 | -     | -                 | 167.6 | 186.3 | 188.5 | - | 190.3                              | 52.9  | 119.0* | 111.3 | -    | -                 | 120.2 | 131.2 | 132.6 | - |
| 190.3                                  | 60.6  | 157.6* | 155.4 | -     | -                 | 163.9 | 182.6 | 184.1 | - | 203.4                              | 47.2  | 116.8* | 111.3 | -    | -                 | 117.6 | 128.6 | 129.7 | - |
| 203.4                                  | 54.7  | 153.2* | 155.4 | -     | -                 | 160.2 | 177.8 | 180.0 | - | 216.5                              | 42.1  | 114.6* | 111.3 | -    | -                 | 114.6 | 125.7 | 126.8 | - |
| 216.5                                  | 49.6  | 149.9* | 155.4 | -     | -                 | 156.5 | 174.2 | 176.4 | - | 229.7                              | 37.7  | 112.4* | 111.3 | -    | -                 | 111.7 | 122.7 | 123.1 | - |
| 229.7                                  | 45.2  | 137.8* | 155.4 | -     | -                 | 152.7 | 169.4 | 171.6 | - | 242.8                              | 33.7  | 110.2* | 111.3 | -    | -                 | 109.1 | 118.8 | 119.9 | - |
| 239.5                                  | 42.2  | 124.6* | 155.4 | 131.2 | -                 | 150.1 | 166.6 | 168.7 | - | 255.9                              | 30.0  | 108.7* | 111.3 | -    | -                 | 106.7 | 115.7 | 116.8 | - |
| 242.8                                  | 41.2  | 120.2* | 155.4 | 131.2 | -                 | 149.2 | 165.7 | 167.6 | - | 262.5                              | 28.3  | 105.5* | 111.3 | 91.9 | -                 | 105.2 | 114.0 | 113.9 | - |
| 246.1                                  | 40.1  | 115.4* | 155.4 | 131.2 | -                 | 148.3 | 164.8 | 166.4 | - | 269.0                              | 26.7  | 102.3* | 111.3 | 91.9 | -                 | 103.8 | 112.7 | 112.1 | - |
| 252.6                                  | 34.4* | 106.0* | 155.4 | 131.2 | -                 | 146.4 | 163.0 | 164.2 | - | 282.2                              | 23.8  | 89.1*  | 111.3 | 91.9 | -                 | 101.2 | 110.2 | 108.8 | - |
| 255.9                                  | -     | -      | 155.4 | 131.2 | -                 | 145.5 | 162.0 | 163.1 | - | 285.4                              | 23.1  | 85.5*  | 111.3 | 91.9 | -                 | 100.3 | 109.7 | 108.0 | - |
| 269.0                                  | -     | -      | 144.4 | 131.2 | -                 | 140.7 | 158.4 | 159.5 | - | 292.0                              | 18.3* | 78.3*  | 111.3 | 91.9 | -                 | 99.0  | 108.6 | 106.6 | - |
| 282.2                                  | -     | -      | 126.8 | 131.2 | -                 | 137.1 | 152.9 | 154.7 | - | 295.3                              | -     | -      | 111.3 | 91.9 | -                 | 98.3  | 108.0 | 105.8 | - |
| 292.0                                  | -     | -      | 112.4 | 131.2 | -                 | 134.3 | 149.0 | 150.3 | - | 308.4                              | -     | -      | 108.0 | 91.9 | -                 | 95.5  | 105.5 | 102.1 | - |
| 295.3                                  | -     | -      | -     | 131.2 | -                 | 133.4 | 147.7 | 148.8 | - | 321.5                              | -     | -      | 95.0  | 91.9 | -                 | 93.0  | 101.9 | 98.5  | - |
| 305.1                                  | -     | -      | -     | 131.2 | 112.4             | 126.8 | 141.1 | 141.6 | - | 328.1                              | -     | -      | 88.2  | 91.9 | -                 | 91.8  | 99.5  | 97.1  | - |
| 308.4                                  | -     | -      | -     | 131.2 | 112.4             | 124.6 | 138.9 | 139.3 | - | 334.6                              | -     | -      | -     | 91.9 | 76.9              | 90.6  | 97.2  | 95.7  | - |
| 321.5                                  | -     | -      | -     | 126.8 | 112.4             | 114.8 | 130.1 | 130.1 | - | 347.8                              | -     | -      | -     | 91.7 | 76.7              | 88.2  | 92.7  | 92.7  | - |
| 328.1                                  | -     | -      | -     | 120.2 | 111.2             | 110.5 | 125.7 | 125.7 | - | 360.9                              | -     | -      | -     | 91.7 | 76.7              | 85.7  | 90.0  | 89.9  | - |
| 334.6                                  | -     | -      | -     | -     | 110.0             | 106.3 | 121.3 | 121.3 | - | 364.2                              | -     | -      | -     | 91.7 | 76.7              | 85.0  | 89.4  | 89.2  | - |
| 347.8                                  | -     | -      | -     | -     | 104.3             | 98.2  | 112.9 | 112.3 | - | 374.0                              | -     | -      | -     | -    | 76.7              | 82.9  | 87.5  | 87.1  | - |
| 360.9                                  | -     | -      | -     | -     | 99.0              | 90.2  | 103.8 | 102.8 | - | 387.1                              | -     | -      | -     | -    | 76.7              | 76.4  | 84.7  | 84.0  | - |
| 374.0                                  | -     | -      | -     | -     | -                 | 82.2  | 93.7  | 92.8  | - | 397.0                              | -     | -      | -     | -    | 76.7              | 71.1  | 81.5  | 80.7  | - |
| 387.1                                  | -     | -      | -     | -     | -                 | 71.9  | 82.4  | 81.5  | - | 400.3                              | -     | -      | -     | -    | -                 | 69.1  | 79.7  | 78.9  | - |
| 400.3                                  | -     | -      | -     | -     | -                 | 61.6  | 71.1  | 70.2  | - | 413.4                              | -     | -      | -     | -    | -                 | 60.8  | 71.2  | 70.3  | - |
| 413.4                                  | -     | -      | -     | -     | -                 | 55.3  | 63.1  | 61.7  | - | 426.5                              | -     | -      | -     | -    | -                 | 52.0  | 61.5  | 60.8  | - |
| 423.2                                  | -     | -      | -     | -     | -                 | 47.4  | 55.6  | 54.7  | - | 439.6                              | -     | -      | -     | -    | -                 | 44.8  | 51.8  | 51.1  | - |
|                                        |       |        |       |       |                   |       |       |       |   | 452.8                              | -     | -      | -     | -    | -                 | 38.1  | 45.4  | 44.5  | - |
|                                        |       |        |       |       |                   |       |       |       |   | 462.6                              | -     | -      | -     | -    | -                 | 31.3  | 38.6  | 37.9  | - |

0 lb
 143,300 lb
 275,600 lb
 363,800 lb
 452,000 lb
 540,200 lb
 628,400 lb
 716,600 lb

SWSL\_1: 36.1 ft – 62.3 ft

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4: 496,100 lb + 110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

| 363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s 360° ASME B30.5 |          |       |      |      |      |      |       |       |   |
|----------------------------------------------------------------------------|----------|-------|------|------|------|------|-------|-------|---|
| 216.5 ft +  315.0 ft                                                       |          |       |      |      |      |      |       |       |   |
| SWSL_1  SFSL_1  SFSL_3  SFSL_4                                             |          |       |      |      |      |      |       |       |   |
| 0 lb  0 lb - 716,600 lb                                                    |          |       |      |      |      |      |       |       |   |
| 87°/85°  87°/85° 75° 65° 55°  15°  15°  15°                                |          |       |      |      |      |      |       |       |   |
| ft                                                                         | 1,000 lb |       |      |      |      |      |       |       |   |
| 95.1                                                                       | 95.0     | 97.2  | -    | -    | -    | -    | -     | -     | - |
| 98.4                                                                       | 94.8     | 96.8  | -    | -    | -    | -    | -     | -     | - |
| 111.5                                                                      | 93.7     | 95.7* | -    | -    | -    | -    | -     | -     | - |
| 124.7                                                                      | 86.9     | 94.6* | -    | -    | -    | -    | -     | -     | - |
| 137.8                                                                      | 76.1     | 93.5* | -    | -    | -    | 92.8 | 100.1 | 101.2 | - |
| 150.9                                                                      | 66.8     | 91.9* | -    | -    | -    | 91.8 | 98.8  | 99.5  | - |
| 164.0                                                                      | 58.6     | 90.6* | -    | -    | -    | 90.5 | 97.3  | 98.0  | - |
| 177.2                                                                      | 51.6     | 89.1* | -    | -    | -    | 89.1 | 95.7  | 96.3  | - |
| 190.3                                                                      | 45.4     | 87.5* | -    | -    | -    | 87.2 | 93.8  | 94.3  | - |
| 203.4                                                                      | 39.9     | 86.0* | 78.9 | -    | -    | 85.2 | 91.9  | 92.3  | - |
| 216.5                                                                      | 35.1     | 84.2* | 78.9 | -    | -    | 83.1 | 89.9  | 90.4  | - |
| 229.7                                                                      | 30.6     | 82.7* | 78.9 | -    | -    | 80.9 | 87.6  | 88.2  | - |
| 242.8                                                                      | 26.7     | 81.1* | 78.9 | -    | -    | 78.8 | 85.2  | 85.9  | - |
| 255.9                                                                      | 23.1     | 79.6* | 78.9 | -    | -    | 76.7 | 82.9  | 83.6  | - |
| 269.0                                                                      | 20.1     | 78.3* | 78.9 | -    | -    | 74.5 | 80.4  | 81.1  | - |
| 282.2                                                                      | 17.0     | 76.9* | 78.9 | -    | -    | 72.5 | 77.8  | 78.3  | - |
| 285.4                                                                      | 16.3     | 76.5* | 78.9 | 61.7 | -    | 72.0 | 77.2  | 77.6  | - |
| 295.3                                                                      | 14.3     | 75.6* | 78.9 | 61.7 | -    | 70.5 | 75.2  | 75.6  | - |
| 308.4                                                                      | 11.9     | 74.3* | 78.7 | 61.7 | -    | 68.5 | 72.5  | 73.0  | - |
| 321.5                                                                      | 9.7      | 73.3* | 78.7 | 61.7 | -    | 66.4 | 69.7  | 70.1  | - |
| 331.4                                                                      | -        | 72.3* | 78.7 | 61.7 | -    | 65.0 | 67.7  | 68.1  | - |
| 334.6                                                                      | -        | 71.3* | 78.7 | 61.7 | -    | 64.6 | 67.0  | 67.5  | - |
| 347.8                                                                      | -        | 70.3* | 78.7 | 61.7 | -    | 62.6 | 64.8  | 65.1  | - |
| 360.9                                                                      | -        | 69.3* | 70.8 | 61.7 | 49.6 | 60.9 | 62.7  | 62.9  | - |
| 367.5                                                                      | -        | 68.3* | 65.3 | 61.7 | 49.6 | 60.1 | 61.6  | 61.9  | - |
| 374.0                                                                      | -        | 67.3* | -    | 61.7 | 49.6 | 59.3 | 60.6  | 60.8  | - |
| 387.1                                                                      | -        | 66.3* | -    | 61.7 | 49.6 | 57.6 | 58.6  | 58.8  | - |
| 400.3                                                                      | -        | 65.3* | -    | 61.7 | 49.6 | 56.0 | 56.3  | 56.7  | - |
| 403.5                                                                      | -        | 64.3* | -    | 61.7 | 49.6 | 55.6 | 55.8  | 56.2  | - |
| 413.4                                                                      | -        | 63.3* | -    | -    | 49.6 | 54.5 | 54.2  | 54.7  | - |
| 426.5                                                                      | -        | 62.3* | -    | -    | 49.6 | 53.1 | 51.7  | 51.9  | - |
| 436.4                                                                      | -        | 61.3* | -    | -    | 49.6 | 50.9 | 49.1  | 49.3  | - |
| 439.6                                                                      | -        | 60.3* | -    | -    | -    | 49.2 | 48.1  | 48.3  | - |
| 452.8                                                                      | -        | 59.3* | -    | -    | -    | 42.8 | 44.3  | 44.3  | - |
| 465.9                                                                      | -        | 58.3* | -    | -    | -    | 35.1 | 40.5  | 40.2  | - |
| 479.0                                                                      | -        | 57.3* | -    | -    | -    | 30.4 | 34.9  | 34.5  | - |
| 492.1                                                                      | -        | 56.3* | -    | -    | -    | 23.1 | 29.1  | 28.4  | - |
| 498.7                                                                      | -        | 55.3* | -    | -    | -    | 19.2 | 26.0  | 25.4  | - |

| 236.2 ft +  78.7 ft                         |          |        |       |       |       |       |       |       |   |
|---------------------------------------------|----------|--------|-------|-------|-------|-------|-------|-------|---|
| SWSL_1  SFSL_1  SFSL_3  SFSL_4              |          |        |       |       |       |       |       |       |   |
| 0 lb  0 lb - 716,600 lb                     |          |        |       |       |       |       |       |       |   |
| 87°/85°  87°/85° 75° 65° 55°  15°  15°  15° |          |        |       |       |       |       |       |       |   |
| ft                                          | 1,000 lb |        |       |       |       |       |       |       |   |
| 42.7                                        | 379.2    | 511.5  | -     | -     | -     | -     | -     | -     | - |
| 45.9                                        | 357.1    | 507.1  | -     | -     | -     | -     | -     | -     | - |
| 52.5                                        | 317.5    | 529.1* | -     | -     | -     | -     | -     | -     | - |
| 59.1                                        | 286.6    | 520.3* | -     | -     | -     | 504.9 | -     | 621.7 | - |
| 65.6                                        | 262.4    | 507.1* | -     | -     | -     | 504.9 | 590.8 | 621.7 | - |
| 72.2                                        | 240.3    | 491.6* | -     | -     | -     | 504.9 | 579.8 | 617.3 | - |
| 78.7                                        | 222.7    | 478.4* | -     | -     | -     | 504.9 | 579.8 | 617.3 | - |
| 85.3                                        | 206.1    | 463.0* | -     | -     | -     | 504.9 | 575.4 | 612.9 | - |
| 91.9                                        | 192.9    | 447.5* | -     | -     | -     | 498.2 | 571.0 | 610.7 | - |
| 95.1                                        | 187.4    | 440.9* | -     | -     | -     | 493.8 | 566.6 | 608.5 | - |
| 98.4                                        | 170.9*   | 434.3* | -     | -     | -     | 493.8 | 566.6 | 608.5 | - |
| 105.0                                       | 160.9*   | 412.3* | -     | -     | -     | 481.3 | 548.2 | 576.9 | - |
| 108.3                                       | -        | -      | 502.7 | -     | -     | 479.5 | 540.1 | 561.1 | - |
| 111.5                                       | -        | -      | 502.7 | -     | -     | 477.7 | 532.0 | 545.3 | - |
| 124.7                                       | -        | -      | 451.9 | -     | -     | 446.8 | 486.5 | 484.3 | - |
| 137.8                                       | -        | -      | 405.7 | -     | -     | 392.4 | 427.7 | 425.5 | - |
| 144.4                                       | -        | -      | 388.0 | -     | -     | 371.1 | 405.7 | 403.4 | - |
| 150.9                                       | -        | -      | -     | -     | -     | 349.8 | 383.6 | 381.4 | - |
| 160.8                                       | -        | -      | -     | 319.7 | -     | 320.0 | 352.7 | 350.5 | - |
| 164.0                                       | -        | -      | -     | 310.9 | -     | 311.6 | 343.9 | 341.7 | - |
| 177.2                                       | -        | -      | -     | 284.4 | -     | 277.8 | 308.6 | 306.4 | - |
| 183.7                                       | -        | -      | -     | 273.4 | -     | 264.6 | 294.7 | 292.5 | - |
| 190.3                                       | -        | -      | -     | -     | -     | 251.3 | 280.7 | 278.5 | - |
| 203.4                                       | -        | -      | -     | -     | -     | 227.1 | 255.7 | 253.5 | - |
| 206.7                                       | -        | -      | -     | -     | 222.7 | 222.1 | 250.2 | 248.0 | - |
| 216.5                                       | -        | -      | -     | -     | 210.5 | 207.2 | 233.7 | 231.5 | - |
| 219.8                                       | -        | -      | -     | -     | 207.2 | 202.8 | 228.9 | 226.0 | - |
| 229.7                                       | -        | -      | -     | -     | -     | 189.6 | 214.6 | 211.6 | - |
| 242.8                                       | -        | -      | -     | -     | -     | 173.8 | 196.9 | 194.4 | - |
| 255.9                                       | -        | -      | -     | -     | -     | 159.8 | 180.8 | 177.5 | - |
| 269.0                                       | -        | -      | -     | -     | -     | 142.2 | 158.0 | 154.7 | - |
| 282.2                                       | -        | -      | -     | -     | -     | 123.5 | 138.3 | 134.5 | - |
| 288.7                                       | -        | -      | -     | -     | -     | 115.7 | 130.1 | 126.8 | - |

0 lb 
 143,300 lb 
 275,600 lb 
 363,800 lb 
 452,000 lb 
 540,200 lb 
 628,400 lb 
 716,600 lb

SWSL\_1: 36.1 ft – 62.3 ft

SWSL\_3 / SFSL\_3, SWSL\_4 / SFSL\_4: 36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4: 496,100 lb + 110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1



| 363,800 lb +  110,200 lb  36.1-68.9 ft |        |        |       |       |                   |       |       |       |   | 27.6 ft  32.2 ft/s 360° ASME B30.5 |       |        |       |       |                   |       |       |       |   |
|----------------------------------------|--------|--------|-------|-------|-------------------|-------|-------|-------|---|------------------------------------|-------|--------|-------|-------|-------------------|-------|-------|-------|---|
| 236.2 ft +  118.1 ft                   |        |        |       |       |                   |       |       |       |   | 236.2 ft +  157.5 ft               |       |        |       |       |                   |       |       |       |   |
| SWSL_1                                 |        |        |       |       | SFSL_1            |       |       |       |   | SWSL_1                             |       |        |       |       | SFSL_1            |       |       |       |   |
| 0 lb                                   |        |        |       |       | 0 lb - 716,600 lb |       |       |       |   | 0 lb                               |       |        |       |       | 0 lb - 716,600 lb |       |       |       |   |
| 87°/85° 87°/85° 75° 65° 55°            |        |        |       |       | 15° 15° 15°       |       |       |       |   | 87°/85° 87°/85° 75° 65° 55°        |       |        |       |       | 15° 15° 15°       |       |       |       |   |
| ft                                     |        |        |       |       | 1,000 lb          |       |       |       |   | ft                                 |       |        |       |       | 1,000 lb          |       |       |       |   |
| 52.5                                   | 295.4  | 383.6  | -     | -     | -                 | -     | -     | -     | - | 59.1                               | 246.9 | 288.8  | -     | -     | -                 | -     | -     | -     | - |
| 59.1                                   | 266.8  | 377.0  | -     | -     | -                 | -     | -     | -     | - | 65.6                               | 224.9 | 286.6  | -     | -     | -                 | -     | -     | -     | - |
| 65.6                                   | 242.5  | 390.2* | -     | -     | -                 | -     | -     | -     | - | 72.2                               | 206.1 | 282.2  | -     | -     | -                 | -     | -     | -     | - |
| 72.2                                   | 222.7  | 383.6* | -     | -     | -                 | -     | -     | -     | - | 78.7                               | 190.7 | 291.0* | -     | -     | -                 | -     | -     | -     | - |
| 78.7                                   | 206.1  | 377.0* | -     | -     | -                 | 374.8 | -     | -     | - | 85.3                               | 176.4 | 288.8* | -     | -     | -                 | -     | -     | -     | - |
| 85.3                                   | 190.7  | 370.4* | -     | -     | -                 | 374.8 | 443.1 | 465.2 | - | 88.6                               | 170.3 | 286.6* | -     | -     | -                 | 282.2 | 332.9 | 350.5 | - |
| 91.9                                   | 177.5  | 361.6* | -     | -     | -                 | 374.8 | 440.9 | 463.0 | - | 91.9                               | 164.2 | 284.4* | -     | -     | -                 | 282.2 | 332.9 | 350.5 | - |
| 98.4                                   | 166.4  | 352.7* | -     | -     | -                 | 374.8 | 438.7 | 460.8 | - | 98.4                               | 153.2 | 280.0* | -     | -     | -                 | 282.2 | 332.9 | 350.5 | - |
| 111.5                                  | 146.6  | 335.1* | -     | -     | -                 | 372.6 | 432.1 | 456.4 | - | 111.5                              | 134.5 | 271.2* | -     | -     | -                 | 282.2 | 332.9 | 350.5 | - |
| 124.7                                  | 131.2  | 317.5* | 374.8 | -     | -                 | 367.4 | 425.5 | 446.1 | - | 124.7                              | 120.2 | 262.4* | -     | -     | -                 | 282.2 | 328.5 | 346.1 | - |
| 134.5                                  | 120.2  | 299.3* | 371.5 | -     | -                 | 366.3 | 425.5 | 433.9 | - | 137.8                              | 107.6 | 251.3* | -     | -     | -                 | 282.2 | 328.5 | 346.1 | - |
| 137.8                                  | 111.3* | 293.2* | 370.4 | -     | -                 | 366.0 | 425.5 | 429.9 | - | 141.1                              | 105.0 | 248.6* | 275.6 | -     | -                 | 279.3 | 325.2 | 342.5 | - |
| 141.1                                  | 107.8* | 273.4* | 366.0 | -     | -                 | 359.0 | 415.6 | 418.9 | - | 150.9                              | 97.2  | 240.3* | 275.6 | -     | -                 | 277.0 | 324.1 | 338.8 | - |
| 150.9                                  | -      | -      | 359.4 | -     | -                 | 344.7 | 385.8 | 385.8 | - | 164.0                              | 88.4  | 231.5* | 273.4 | -     | -                 | 271.9 | 320.4 | 330.0 | - |
| 164.0                                  | -      | -      | 328.5 | -     | -                 | 317.5 | 349.1 | 346.9 | - | 170.6                              | 83.6  | 216.6* | 272.3 | -     | -                 | 270.4 | 318.9 | 322.6 | - |
| 177.2                                  | -      | -      | 299.8 | -     | -                 | 282.2 | 315.3 | 313.1 | - | 177.2                              | 74.3* | 201.7* | 271.2 | -     | -                 | 269.0 | 317.5 | 315.3 | - |
| 183.7                                  | -      | -      | 282.2 | 266.8 | -                 | 269.0 | 301.3 | 299.1 | - | 180.4                              | 72.3* | 189.6* | 267.9 | -     | -                 | 264.9 | 310.5 | 308.3 | - |
| 190.3                                  | -      | -      | -     | 255.7 | -                 | 255.7 | 287.3 | 285.1 | - | 190.3                              | -     | -      | 264.6 | -     | -                 | 252.8 | 289.5 | 287.3 | - |
| 203.4                                  | -      | -      | -     | 238.1 | -                 | 231.5 | 261.6 | 259.4 | - | 203.4                              | -     | -      | 251.3 | -     | -                 | 234.1 | 263.8 | 261.6 | - |
| 216.5                                  | -      | -      | -     | 220.5 | -                 | 211.6 | 238.1 | 235.9 | - | 206.7                              | -     | -      | 243.6 | 227.1 | -                 | 228.7 | 257.9 | 255.7 | - |
| 219.8                                  | -      | -      | -     | 217.2 | -                 | 207.2 | 233.5 | 231.3 | - | 216.5                              | -     | -      | 220.5 | 215.0 | -                 | 212.7 | 240.3 | 238.1 | - |
| 229.7                                  | -      | -      | -     | -     | -                 | 194.0 | 219.7 | 217.4 | - | 219.8                              | -     | -      | 209.4 | 211.3 | -                 | 208.3 | 235.5 | 233.3 | - |
| 236.2                                  | -      | -      | -     | -     | 185.2             | 185.2 | 210.5 | 208.3 | - | 229.7                              | -     | -      | -     | 199.5 | -                 | 195.1 | 221.2 | 219.0 | - |
| 242.8                                  | -      | -      | -     | -     | 178.6             | 177.5 | 202.5 | 200.3 | - | 242.8                              | -     | -      | -     | 187.4 | -                 | 178.9 | 203.3 | 201.4 | - |
| 255.9                                  | -      | -      | -     | -     | 167.6             | 162.0 | 186.3 | 184.1 | - | 255.9                              | -     | -      | -     | 175.3 | -                 | 164.2 | 187.4 | 185.2 | - |
| 269.0                                  | -      | -      | -     | -     | -                 | 149.5 | 172.3 | 170.1 | - | 259.2                              | -     | -      | -     | 173.1 | -                 | 160.9 | 183.9 | 181.7 | - |
| 282.2                                  | -      | -      | -     | -     | -                 | 137.8 | 157.3 | 154.7 | - | 262.5                              | -     | -      | -     | -     | 156.5             | 157.6 | 180.4 | 178.2 | - |
| 295.3                                  | -      | -      | -     | -     | -                 | 127.9 | 141.1 | 137.8 | - | 269.0                              | -     | -      | -     | -     | 151.0             | 151.0 | 173.4 | 171.2 | - |
| 308.4                                  | -      | -      | -     | -     | -                 | 111.7 | 122.7 | 120.2 | - | 282.2                              | -     | -      | -     | -     | 143.3             | 139.1 | 160.6 | 158.4 | - |
| 321.5                                  | -      | -      | -     | -     | -                 | 95.8  | 109.7 | 105.9 | - | 295.3                              | -     | -      | -     | -     | 135.6             | 129.0 | 148.8 | 146.6 | - |
| 324.8                                  | -      | -      | -     | -     | -                 | 93.7  | 106.7 | 103.2 | - | 308.4                              | -     | -      | -     | -     | -                 | 118.7 | 137.1 | 134.8 | - |
|                                        |        |        |       |       |                   |       |       |       |   | 321.5                              | -     | -      | -     | -     | -                 | 108.5 | 124.2 | 121.6 | - |
|                                        |        |        |       |       |                   |       |       |       |   | 334.6                              | -     | -      | -     | -     | -                 | 98.5  | 109.3 | 106.9 | - |
|                                        |        |        |       |       |                   |       |       |       |   | 347.8                              | -     | -      | -     | -     | -                 | 84.9  | 95.3  | 92.2  | - |
|                                        |        |        |       |       |                   |       |       |       |   | 360.9                              | -     | -      | -     | -     | -                 | 73.9  | 84.4  | 81.7  | - |
|                                        |        |        |       |       |                   |       |       |       |   | 364.2                              | -     | -      | -     | -     | -                 | 72.1  | 81.4  | 78.9  | - |

|  |            |            |            |            |
|--|------------|------------|------------|------------|
|  | 0 lb       | 143,300 lb | 275,600 lb | 363,800 lb |
|  | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb |

SWSL\_1: 36.1 ft – 62.3 ft

SWSL\_3 / SFSL\_3: 36.1 ft – 68.9 ft

SFSL\_3: 496,100 lb + 110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  363,800 lb +  110,200 lb  36.1-68.9 ft                                                                                                                                                                                                                                                                                                                                                                                                             |       |        |       |       |       |       |       |       |       |  27.6 ft  32.2 ft/s 360° ASME B30.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |        |       |       |       |       |       |       |   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|-------|-------|-------|-------|-------|---|
|  236.2 ft +  196.9 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |        |       |       |       |       |       |       |       |  236.2 ft +  236.2 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |        |       |       |       |       |       |       |   |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4<br> 0 lb    0 lb - 716,600 lb<br> 87°/85°  87°/85° 75° 65° 55°  15°  15°  15° |       |        |       |       |       |       |       |       |       | SWSL_1   SFSL_1   SFSL_3   SFSL_4<br> 0 lb    0 lb - 716,600 lb<br> 87°/85°  87°/85° 75° 65° 55°  15°  15°  15° |       |        |       |       |       |       |       |       |   |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |        |       |       |       |       |       |       |       | ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |        |       |       |       |       |       |       |   |
| 1,000 lb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        |       |       |       |       |       |       |       | 1,000 lb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |        |       |       |       |       |       |       |   |
| 68.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 200.6 | 219.4  | -     | -     | -     | -     | -     | -     | -     | 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 160.9 | 165.3  | -     | -     | -     | -     | -     | -     | - |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 191.8 | 218.3  | -     | -     | -     | -     | -     | -     | -     | 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 152.1 | 164.2  | -     | -     | -     | -     | -     | -     | - |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 177.5 | 216.1  | -     | -     | -     | -     | -     | -     | -     | 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 141.1 | 163.1  | -     | -     | -     | -     | -     | -     | - |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 164.2 | 220.5* | -     | -     | -     | -     | -     | -     | -     | 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 131.2 | 165.3* | -     | -     | -     | -     | -     | -     | - |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 152.1 | 219.4* | -     | -     | -     | -     | -     | -     | -     | 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 114.6 | 163.1* | -     | -     | -     | -     | -     | -     | - |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 142.2 | 217.2* | -     | -     | -     | -     | -     | -     | -     | 114.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 111.3 | 162.6* | -     | -     | -     | 159.8 | 187.4 | 194.0 | - |
| 101.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 137.8 | 216.3* | -     | -     | -     | -     | 213.8 | -     | 260.1 | 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 101.2 | 160.9* | -     | -     | -     | 159.8 | 187.4 | 194.0 | - |
| 108.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 129.0 | 214.7* | -     | -     | -     | -     | 213.8 | 251.3 | 260.1 | 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 89.7  | 158.7* | -     | -     | -     | 159.8 | 187.4 | 194.0 | - |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 124.6 | 213.8* | -     | -     | -     | -     | 213.8 | 251.3 | 260.1 | 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 80.0  | 155.4* | -     | -     | -     | 158.4 | 185.9 | 191.8 | - |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 110.2 | 208.3* | -     | -     | -     | -     | 213.5 | 251.3 | 260.1 | 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 71.7  | 152.1* | -     | -     | -     | 156.5 | 184.1 | 189.2 | - |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 98.5  | 202.8* | -     | -     | -     | -     | 212.7 | 251.3 | 260.1 | 173.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 66.2  | 149.6* | 144.4 | -     | -     | 154.9 | 182.4 | 187.0 | - |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 88.4  | 197.3* | -     | -     | -     | -     | 212.0 | 249.1 | 258.7 | 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 64.4  | 148.8* | 144.4 | -     | -     | 154.3 | 181.9 | 186.3 | - |
| 157.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 84.0  | 194.0* | 201.7 | -     | -     | -     | 211.6 | 249.1 | 257.9 | 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 58.0  | 144.4* | 144.4 | -     | -     | 151.4 | 177.8 | 182.6 | - |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 79.6  | 190.7* | 201.7 | -     | -     | -     | 209.1 | 246.9 | 254.3 | 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 52.2  | 141.1* | 144.4 | -     | -     | 148.6 | 174.5 | 178.9 | - |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 72.3  | 184.1* | 201.7 | -     | -     | -     | 206.1 | 242.5 | 249.1 | 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 47.4  | 136.7* | 144.4 | -     | -     | 145.5 | 170.9 | 175.3 | - |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 65.7  | 178.6* | 201.7 | -     | -     | -     | 202.5 | 238.1 | 244.7 | 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 43.0  | 133.4* | 144.4 | -     | -     | 142.6 | 166.4 | 170.5 | - |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 60.2  | 166.4* | 201.7 | -     | -     | -     | 197.7 | 230.8 | 237.4 | 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 39.0  | 122.4* | 144.4 | -     | -     | 138.5 | 162.6 | 167.0 | - |
| 210.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 57.8  | 153.2* | 200.6 | -     | -     | -     | 195.8 | 226.3 | 232.2 | 246.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 38.1  | 117.7* | 144.4 | -     | -     | 137.8 | 161.8 | 166.2 | - |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 50.0* | 140.0* | 200.6 | -     | -     | -     | 194.0 | 222.7 | 227.1 | 249.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 32.7* | 113.1* | 144.4 | 122.4 | -     | 137.1 | 160.9 | 165.3 | - |
| 226.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | 198.1 | 174.2 | -     | -     | 189.6 | 215.5 | 218.8 | 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 31.1* | 103.8* | 144.4 | 122.4 | -     | 135.6 | 158.7 | 163.1 | - |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | 197.3 | 174.2 | -     | -     | 188.5 | 213.1 | 216.1 | 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 144.4 | 122.4 | -     | 131.9 | 155.8 | 158.7 | - |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | 180.8 | 173.1 | -     | -     | 179.7 | 203.9 | 203.9 | 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 133.4 | 122.4 | -     | 128.6 | 152.5 | 153.2 | - |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | 154.3 | 170.9 | -     | -     | 166.4 | 189.6 | 187.4 | 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 115.7 | 122.4 | -     | 125.7 | 148.8 | 146.6 | - |
| 259.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | 147.7 | 168.1 | -     | -     | 163.1 | 186.1 | 183.9 | 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | 122.4 | -     | 119.3 | 137.8 | 134.8 | - |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | 159.8 | -     | -     | 153.2 | 175.6 | 173.4 | 318.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | 122.4 | 104.9 | 113.5 | 129.8 | 126.8 | - |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | 151.0 | -     | -     | 141.1 | 162.4 | 160.2 | 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | 122.4 | 104.9 | 111.3 | 127.3 | 124.6 | - |
| 292.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | 144.4 | 132.3 | 132.8 | 153.0 | 150.8 | -     | 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | 116.8 | 104.1 | 102.3 | 117.9 | 114.6 | - |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | 142.2 | 130.1 | 130.1 | 149.9 | 147.7 | -     | 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | 98.5  | 94.2  | 109.0 | 105.8 | - |
| 298.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | 141.1 | 128.1 | 127.5 | 147.3 | 145.1 | -     | 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | 93.5  | 86.5  | 100.3 | 97.2  | - |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -     | 122.4 | 119.8 | 139.6 | 137.4 | -     | 370.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | 89.9  | 81.1  | 94.0  | 90.9  | - |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -     | 115.7 | 110.5 | 129.3 | 126.8 | -     | 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | -     | 79.4  | 91.9  | 88.8  | - |
| 331.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -     | 111.3 | 104.2 | 122.4 | 119.3 | -     | 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | -     | 72.2  | 83.7  | 81.1  | - |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -     | -     | 102.1 | 120.2 | 116.8 | -     | 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | -     | 63.8  | 74.4  | 72.2  | - |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -     | -     | 94.0  | 108.5 | 106.0 | -     | 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | -     | 54.2  | 63.9  | 61.9  | - |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -     | -     | 85.2  | 96.6  | 94.4  | -     | 426.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | -     | 46.2  | 53.5  | 51.6  | - |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -     | -     | 74.3  | 84.2  | 82.0  | -     | 439.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | -     | 39.0  | 47.2  | 44.3  | - |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -     | -     | 63.1  | 73.1  | 70.0  | -     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        |       |       |       |       |       |       |   |
| 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -     | -     | 55.4  | 63.8  | 61.4  | -     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        |       |       |       |       |       |       |   |
| 403.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -     | -     | 53.4  | 61.1  | 58.9  | -     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        |       |       |       |       |       |       |   |

 0 lb 
  143,300 lb 
  275,600 lb 
  363,800 lb 
  452,000 lb 
  540,200 lb 
  628,400 lb 
  716,600 lb

SWSL\_1:  36.1 ft – 62.3 ft

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4:  36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4:  496,100 lb +  110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s 360° ASME B30.5 |          |        |       |      |      |       |       |       |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|-------|------|------|-------|-------|-------|---|
|  236.2 ft +  275.6 ft                                                                                                                                                                                                                                                                                                            |          |        |       |      |      |       |       |       |   |
|  SWSL_1  SFSL_1  SFSL_3  SFSL_4                                                                                                                                |          |        |       |      |      |       |       |       |   |
|  0 lb  0 lb - 716,600 lb                                                                                                                                                                                                                                                                                                         |          |        |       |      |      |       |       |       |   |
|  87°/85°  87°/85° 75° 65° 55°  15°  15°  15°                                  |          |        |       |      |      |       |       |       |   |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1,000 lb |        |       |      |      |       |       |       |   |
| 88.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.2    | 123.5  | -     | -    | -    | -     | -     | -     | - |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.2    | 122.4  | -     | -    | -    | -     | -     | -     | - |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 117.9    | 122.4  | -     | -    | -    | -     | -     | -     | - |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 104.9    | 121.3* | -     | -    | -    | -     | -     | -     | - |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 91.7     | 120.2* | -     | -    | -    | -     | -     | -     | - |
| 128.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 89.0     | 119.9* | -     | -    | -    | 119.0 | 137.8 | 141.1 | - |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 80.9     | 119.0* | -     | -    | -    | 119.0 | 136.7 | 141.1 | - |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 71.4     | 116.8* | -     | -    | -    | 118.3 | 136.0 | 139.6 | - |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 63.3     | 115.7* | -     | -    | -    | 116.8 | 134.5 | 137.8 | - |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 56.4     | 113.5* | -     | -    | -    | 114.6 | 132.3 | 135.6 | - |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 50.3     | 111.3* | 104.9 | -    | -    | 113.2 | 129.3 | 132.6 | - |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 44.8     | 109.3* | 104.9 | -    | -    | 111.2 | 126.4 | 129.7 | - |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 39.9     | 107.1* | 104.9 | -    | -    | 108.9 | 123.5 | 126.8 | - |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 35.5     | 104.7* | 104.9 | -    | -    | 106.4 | 120.5 | 123.8 | - |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 31.5     | 102.3* | 104.9 | -    | -    | 103.9 | 117.9 | 121.3 | - |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 28.0     | 100.1* | 104.9 | -    | -    | 101.4 | 114.6 | 117.9 | - |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 24.9     | 97.9*  | 104.9 | 85.8 | -    | 99.1  | 112.4 | 114.3 | - |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 22.0     | 92.2*  | 104.9 | 85.8 | -    | 96.3  | 109.9 | 111.2 | - |
| 285.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 21.4     | 88.6*  | 104.9 | 85.8 | -    | 95.7  | 109.2 | 110.6 | - |
| 292.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 16.1*    | 81.6*  | 104.9 | 85.8 | -    | 94.5  | 107.8 | 109.3 | - |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | 104.9 | 85.8 | -    | 93.9  | 107.1 | 108.7 | - |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | 104.9 | 85.8 | -    | 91.6  | 104.5 | 105.6 | - |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | 101.6 | 85.8 | -    | 89.1  | 101.6 | 102.3 | - |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | 87.7  | 85.8 | -    | 86.9  | 97.9  | 98.1  | - |
| 344.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | 85.8 | 71.9 | 84.9  | 94.7  | 94.6  | - |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | 85.8 | 71.9 | 84.4  | 93.6  | 93.4  | - |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | 85.8 | 71.9 | 82.2  | 89.4  | 88.7  | - |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | 85.5 | 71.9 | 79.8  | 85.1  | 84.0  | - |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -    | 71.7 | 73.3  | 80.8  | 79.3  | - |
| 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -    | 71.7 | 67.1  | 75.8  | 73.6  | - |
| 410.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -    | 71.7 | 62.6  | 71.4  | 68.7  | - |
| 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -    | -    | 61.1  | 69.9  | 67.0  | - |
| 426.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -    | -    | 53.7  | 62.7  | 60.5  | - |
| 439.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -    | -    | 45.9  | 54.6  | 52.6  | - |
| 452.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -    | -    | 37.7  | 45.6  | 43.7  | - |
| 465.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -    | -    | 31.4  | 36.7  | 34.7  | - |
| 479.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | -      | -     | -    | -    | 24.5  | 31.1  | 28.9  | - |

|                                                                                     |            |            |            |            |
|-------------------------------------------------------------------------------------|------------|------------|------------|------------|
|  | 0 lb       | 143,300 lb | 275,600 lb | 363,800 lb |
|  | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb |

SWSL\_1:  36.1 ft – 62.3 ft

SWSL\_3 / SFSL\_3, SWSL\_4 / SFSL\_4:  36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4:  496,100 lb +  110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  236.2 ft +  315.0 ft                                                                                                                                                                                                                                                                                 |      |       |      |      |      |      |      |       |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|------|------|------|------|------|-------|---|
|  SWSL_1  SFSL_1  SFSL_3  SFSL_4                                                                                                 |      |       |      |      |      |      |      |       |   |
|  0 lb  0 lb - 716,600 lb                                                                                                                                                                                                                                                                              |      |       |      |      |      |      |      |       |   |
|  87°/85°  87°/85° 75° 65° 55°  15°  15°  15° |      |       |      |      |      |      |      |       |   |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |       |      |      |      |      |      |       |   |
| 95.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 89.3 | 91.3  | -    | -    | -    | -    | -    | -     | - |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 89.1 | 91.1  | -    | -    | -    | -    | -    | -     | - |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 88.2 | 89.7  | -    | -    | -    | -    | -    | -     | - |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 82.9 | 89.1* | -    | -    | -    | -    | -    | -     | - |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 72.3 | 88.4* | -    | -    | -    | -    | -    | -     | - |
| 141.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 70.1 | 88.1* | -    | -    | -    | 87.5 | 98.3 | 101.2 | - |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 63.3 | 87.1* | -    | -    | -    | 86.7 | 97.5 | 100.5 | - |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 55.6 | 85.8* | -    | -    | -    | 85.7 | 96.4 | 99.1  | - |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 48.7 | 84.4* | -    | -    | -    | 84.7 | 95.2 | 97.7  | - |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 42.8 | 82.9* | -    | -    | -    | 82.9 | 93.2 | 95.5  | - |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 37.5 | 81.4* | -    | -    | -    | 81.1 | 91.1 | 93.3  | - |
| 206.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 36.3 | 81.0* | 73.6 | -    | -    | 80.7 | 90.6 | 92.7  | - |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 32.8 | 79.8* | 73.6 | -    | -    | 79.6 | 89.1 | 91.1  | - |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 28.7 | 78.3* | 73.6 | -    | -    | 77.5 | 86.9 | 88.7  | - |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 24.7 | 76.9* | 73.6 | -    | -    | 75.5 | 84.7 | 86.4  | - |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 21.2 | 75.4* | 73.6 | -    | -    | 73.4 | 82.5 | 84.0  | - |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 18.1 | 73.9* | 73.6 | -    | -    | 71.5 | 80.2 | 81.6  | - |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 15.2 | 72.5* | 73.6 | -    | -    | 69.6 | 77.7 | 79.1  | - |
| 292.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13.2 | 71.5* | 73.6 | 57.5 | -    | 68.2 | 75.8 | 77.2  | - |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 12.6 | 71.2* | 73.6 | 57.5 | -    | 67.7 | 75.2 | 76.5  | - |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10.1 | 70.1* | 73.6 | 57.5 | -    | 65.8 | 72.7 | 74.0  | - |
| 315.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 9.0  | 68.5* | 73.6 | 57.5 | -    | 64.8 | 71.4 | 72.8  | - |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -    | 66.8* | 73.6 | 57.5 | -    | 63.9 | 70.2 | 71.4  | - |
| 324.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -    | 64.1* | 73.6 | 57.5 | -    | 63.5 | 69.6 | 70.8  | - |
| 331.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -    | 58.6* | 73.6 | 57.5 | -    | 62.6 | 68.3 | 69.4  | - |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -    | -     | 73.6 | 57.5 | -    | 62.2 | 67.7 | 68.8  | - |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -    | -     | 73.6 | 57.5 | -    | 60.2 | 65.2 | 66.1  | - |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -    | -     | 73.6 | 57.5 | -    | 58.5 | 63.0 | 63.9  | - |
| 370.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -    | -     | 67.0 | 57.5 | -    | 57.3 | 61.5 | 62.4  | - |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -    | -     | -    | 57.5 | 46.1 | 56.9 | 60.8 | 61.9  | - |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -    | -     | -    | 57.5 | 46.1 | 55.2 | 59.0 | 59.8  | - |
| 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -    | -     | -    | 57.5 | 46.1 | 53.5 | 57.0 | 57.9  | - |
| 410.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -    | -     | -    | 57.5 | 45.9 | 52.4 | 55.6 | 56.5  | - |
| 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -    | -     | -    | -    | 45.9 | 52.0 | 55.1 | 56.0  | - |
| 426.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -    | -     | -    | -    | 45.9 | 50.7 | 53.1 | 54.1  | - |
| 439.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -    | -     | -    | -    | 45.9 | 48.0 | 50.3 | 51.0  | - |
| 446.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -    | -     | -    | -    | 45.9 | 46.0 | 48.3 | 48.9  | - |
| 452.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -    | -     | -    | -    | -    | 43.2 | 46.3 | 46.7  | - |
| 465.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -    | -     | -    | -    | -    | 36.0 | 41.4 | 41.4  | - |
| 479.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -    | -     | -    | -    | -    | 28.8 | 35.9 | 35.2  | - |
| 492.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -    | -     | -    | -    | -    | 23.1 | 29.5 | 28.0  | - |
| 515.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -    | -     | -    | -    | -    | 12.1 | 18.5 | 15.9  | - |

| 363,800 lb + 110,200 lb 36.1-68.9 ft    |        |        |   |       |       |       |       |       |   | 27.6 ft 32.2 ft/s 360° ASME B30.5       |        |        |       |   |       |       |       |       |   |
|-----------------------------------------|--------|--------|---|-------|-------|-------|-------|-------|---|-----------------------------------------|--------|--------|-------|---|-------|-------|-------|-------|---|
| 255.9 ft + 78.7 ft                      |        |        |   |       |       |       |       |       |   | 255.9 ft + 118.1 ft                     |        |        |       |   |       |       |       |       |   |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4       |        |        |   |       |       |       |       |       |   | SWSL_1   SFSL_1   SFSL_3   SFSL_4       |        |        |       |   |       |       |       |       |   |
| 0 lb   0 lb - 716,600 lb                |        |        |   |       |       |       |       |       |   | 0 lb   0 lb - 716,600 lb                |        |        |       |   |       |       |       |       |   |
| 87°/85° 87°/85° 75° 65° 55° 15° 15° 15° |        |        |   |       |       |       |       |       |   | 87°/85° 87°/85° 75° 65° 55° 15° 15° 15° |        |        |       |   |       |       |       |       |   |
| ft 1,000 lb                             |        |        |   |       |       |       |       |       |   | ft 1,000 lb                             |        |        |       |   |       |       |       |       |   |
| 42.7                                    | 363.8  | 429.9  | - | -     | -     | -     | -     | -     | - | 52.5                                    | 282.2  | 321.9  | -     | - | -     | -     | -     | -     | - |
| 45.9                                    | 341.7  | 423.3  | - | -     | -     | -     | -     | -     | - | 59.1                                    | 255.7  | 315.3  | -     | - | -     | -     | -     | -     | - |
| 52.5                                    | 306.4  | 412.3  | - | -     | -     | -     | -     | -     | - | 65.6                                    | 233.7  | 326.3* | -     | - | -     | -     | -     | -     | - |
| 59.1                                    | 277.8  | 427.7* | - | -     | -     | -     | -     | -     | - | 72.2                                    | 215.0  | 319.7* | -     | - | -     | -     | -     | -     | - |
| 62.3                                    | 264.6  | 423.3* | - | -     | -     | 418.9 | -     | 564.4 | - | 75.5                                    | 206.7  | 316.4* | -     | - | -     | 313.1 | -     | -     | - |
| 65.6                                    | 251.3  | 416.7* | - | -     | -     | 418.9 | -     | 564.4 | - | 78.7                                    | 198.4  | 313.1* | -     | - | -     | 313.1 | -     | -     | - |
| 68.9                                    | 241.4  | 410.1* | - | -     | -     | 418.9 | 533.5 | 564.4 | - | 82.0                                    | 191.3  | 309.7* | -     | - | -     | 313.1 | 403.4 | 427.7 | - |
| 72.2                                    | 231.5  | 403.4* | - | -     | -     | 418.9 | 533.5 | 564.4 | - | 85.3                                    | 184.1  | 306.4* | -     | - | -     | 313.1 | 403.4 | 427.7 | - |
| 78.7                                    | 215.0  | 390.2* | - | -     | -     | 418.9 | 526.9 | 560.0 | - | 91.9                                    | 172.0  | 297.6* | -     | - | -     | 313.1 | 403.4 | 423.3 | - |
| 85.3                                    | 199.5  | 377.0* | - | -     | -     | 416.7 | 526.9 | 560.0 | - | 98.4                                    | 160.9  | 291.0* | -     | - | -     | 313.1 | 401.2 | 423.3 | - |
| 91.9                                    | 186.3  | 363.8* | - | -     | -     | 414.5 | 522.5 | 557.8 | - | 111.5                                   | 142.2  | 273.4* | -     | - | -     | 308.6 | 394.6 | 418.9 | - |
| 95.1                                    | 180.8  | 358.3* | - | -     | -     | 412.3 | 513.7 | 555.6 | - | 124.7                                   | 126.8  | 257.9* | -     | - | -     | 305.0 | 388.0 | 414.5 | - |
| 98.4                                    | 164.2* | 352.7* | - | -     | -     | 410.1 | 513.7 | 555.6 | - | 128.0                                   | 123.8  | 254.6* | 304.2 | - | -     | 304.2 | 388.0 | 414.5 | - |
| 105.0                                   | 154.3* | 341.7* | - | -     | -     | 407.1 | 507.1 | 537.2 | - | 134.5                                   | 117.9  | 248.0* | 304.2 | - | -     | 302.8 | 388.0 | 414.5 | - |
| 111.5                                   | -      | 405.7  | - | -     | -     | 404.2 | 507.1 | 523.2 | - | 137.8                                   | 107.1* | 244.7* | 302.0 | - | -     | 302.0 | 388.0 | 414.5 | - |
| 124.7                                   | -      | 392.4  | - | -     | -     | 392.4 | 479.1 | 479.9 | - | 144.4                                   | 102.3* | 238.1* | 297.6 | - | -     | 296.9 | 377.7 | 396.1 | - |
| 137.8                                   | -      | 372.6  | - | -     | -     | 383.6 | 423.3 | 421.1 | - | 150.9                                   | -      | 293.2  | -     | - | -     | 293.9 | 369.6 | 377.7 | - |
| 150.9                                   | -      | 346.1  | - | -     | -     | 346.9 | 379.2 | 377.0 | - | 164.0                                   | -      | 280.0  | -     | - | -     | 285.1 | 344.7 | 342.5 | - |
| 164.0                                   | -      | -      | - | -     | -     | 311.6 | 340.2 | 338.0 | - | 177.2                                   | -      | 264.6  | -     | - | -     | 277.8 | 310.9 | 308.6 | - |
| 170.6                                   | -      | -      | - | 293.2 | -     | 294.7 | 323.3 | 321.1 | - | 187.0                                   | -      | 253.5  | -     | - | -     | 260.1 | 289.9 | 287.7 | - |
| 177.2                                   | -      | -      | - | 280.0 | -     | 277.8 | 306.4 | 304.2 | - | 190.3                                   | -      | -      | 253.5 | - | -     | 254.3 | 282.9 | 280.7 | - |
| 190.3                                   | -      | -      | - | 257.9 | -     | 251.3 | 278.5 | 276.3 | - | 203.4                                   | -      | -      | 233.7 | - | -     | 231.5 | 257.2 | 255.0 | - |
| 203.4                                   | -      | -      | - | -     | -     | 226.4 | 253.5 | 250.6 | - | 216.5                                   | -      | -      | 217.2 | - | -     | 210.5 | 233.7 | 231.5 | - |
| 216.5                                   | -      | -      | - | -     | -     | 206.1 | 231.5 | 227.1 | - | 229.7                                   | -      | -      | 202.8 | - | -     | 192.9 | 215.0 | 212.2 | - |
| 219.8                                   | -      | -      | - | -     | 201.7 | 201.7 | 224.9 | 222.7 | - | 242.8                                   | -      | -      | -     | - | -     | 176.4 | 198.0 | 195.8 | - |
| 229.7                                   | -      | -      | - | -     | 191.8 | 188.5 | 211.6 | 209.4 | - | 246.1                                   | -      | -      | -     | - | 172.0 | 172.5 | 194.0 | 191.8 | - |
| 242.8                                   | -      | -      | - | -     | -     | 172.3 | 194.7 | 192.5 | - | 255.9                                   | -      | -      | -     | - | 163.1 | 160.9 | 181.9 | 179.7 | - |
| 255.9                                   | -      | -      | - | -     | -     | 157.6 | 178.6 | 176.4 | - | 269.0                                   | -      | -      | -     | - | 154.3 | 148.4 | 167.9 | 165.7 | - |
| 269.0                                   | -      | -      | - | -     | -     | 145.1 | 163.1 | 160.2 | - | 282.2                                   | -      | -      | -     | - | -     | 137.1 | 155.1 | 152.9 | - |
| 282.2                                   | -      | -      | - | -     | -     | 130.8 | 145.1 | 142.0 | - | 295.3                                   | -      | -      | -     | - | -     | 125.7 | 143.3 | 141.1 | - |
| 295.3                                   | -      | -      | - | -     | -     | 114.6 | 124.6 | 122.4 | - | 308.4                                   | -      | -      | -     | - | -     | 115.4 | 128.2 | 125.9 | - |
| 305.1                                   | -      | -      | - | -     | -     | 102.5 | 114.6 | 111.3 | - | 321.5                                   | -      | -      | -     | - | -     | 103.3 | 112.2 | 109.9 | - |
|                                         |        |        |   |       |       |       |       |       |   | 334.6                                   | -      | -      | -     | - | -     | 89.5  | 97.7  | 93.9  | - |
|                                         |        |        |   |       |       |       |       |       |   | 344.5                                   | -      | -      | -     | - | -     | 80.2  | 89.5  | 86.6  | - |

0 lb143,300 lb275,600 lb363,800 lb

452,000 lb540,200 lb628,400 lb716,600 lb

SWSL\_1: 36.1 ft – 62.3 ft  
 SWSL\_3 / SFSL\_3, SWSL\_4 / SFSL\_4: 36.1 ft – 68.9 ft  
 SFSL\_3 + SFSL\_4: 496,100 lb + 110,200 lb

\* Main boom angle 85°  
 Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

| 363,800 lb +  110,200 lb  36.1-68.9 ft |       |        |       |       |                   |       |       |       |   | 27.6 ft  32.2 ft/s 360° ASME B30.5 |       |        |       |       |                   |       |       |       |   |
|----------------------------------------|-------|--------|-------|-------|-------------------|-------|-------|-------|---|------------------------------------|-------|--------|-------|-------|-------------------|-------|-------|-------|---|
| 255.9 ft +  157.5 ft                   |       |        |       |       |                   |       |       |       |   | 255.9 ft +  196.9 ft               |       |        |       |       |                   |       |       |       |   |
| SWSL_1                                 |       |        |       |       | SFSL_1            |       |       |       |   | SWSL_1                             |       |        |       |       | SFSL_1            |       |       |       |   |
| 0 lb                                   |       |        |       |       | 0 lb - 716,600 lb |       |       |       |   | 0 lb                               |       |        |       |       | 0 lb - 716,600 lb |       |       |       |   |
| ft                                     |       |        |       |       | 1,000 lb          |       |       |       |   | ft                                 |       |        |       |       | 1,000 lb          |       |       |       |   |
| 62.3                                   | 227.1 | 244.7  | -     | -     | -                 | -     | -     | -     | - | 68.9                               | 184.1 | 188.5  | -     | -     | -                 | -     | -     | -     | - |
| 65.6                                   | 217.2 | 242.5  | -     | -     | -                 | -     | -     | -     | - | 72.2                               | 181.9 | 187.4  | -     | -     | -                 | -     | -     | -     | - |
| 72.2                                   | 199.5 | 238.1  | -     | -     | -                 | -     | -     | -     | - | 78.7                               | 170.9 | 185.2  | -     | -     | -                 | -     | -     | -     | - |
| 78.7                                   | 184.1 | 246.9* | -     | -     | -                 | -     | -     | -     | - | 85.3                               | 157.6 | 188.5* | -     | -     | -                 | -     | -     | -     | - |
| 85.3                                   | 170.9 | 244.7* | -     | -     | -                 | -     | -     | -     | - | 91.9                               | 146.6 | 187.4* | -     | -     | -                 | -     | -     | -     | - |
| 88.6                                   | 164.8 | 242.5* | -     | -     | -                 | 235.9 | -     | -     | - | 98.4                               | 136.7 | 185.2* | -     | -     | -                 | -     | -     | -     | - |
| 91.9                                   | 158.7 | 240.3* | -     | -     | -                 | 235.9 | -     | -     | - | 101.7                              | 132.6 | 184.1* | -     | -     | -                 | 181.9 | 231.5 | 242.5 | - |
| 95.1                                   | 153.2 | 238.1* | -     | -     | -                 | 235.9 | 306.4 | 321.9 | - | 111.5                              | 120.2 | 180.8* | -     | -     | -                 | 181.9 | 231.5 | 242.5 | - |
| 98.4                                   | 147.7 | 235.9* | -     | -     | -                 | 235.9 | 306.4 | 321.9 | - | 124.7                              | 106.7 | 176.4* | -     | -     | -                 | 181.5 | 231.5 | 242.5 | - |
| 111.5                                  | 130.1 | 227.1* | -     | -     | -                 | 235.9 | 306.4 | 321.9 | - | 137.8                              | 95.0  | 169.8* | -     | -     | -                 | 180.8 | 231.5 | 242.5 | - |
| 124.7                                  | 115.7 | 217.2* | -     | -     | -                 | 234.4 | 303.5 | 317.5 | - | 150.9                              | 85.3  | 164.2* | -     | -     | -                 | 178.6 | 231.5 | 239.6 | - |
| 137.8                                  | 104.1 | 207.2* | -     | -     | -                 | 231.5 | 302.0 | 317.5 | - | 160.8                              | 79.0  | 159.3* | 172.0 | -     | -                 | 176.9 | 229.3 | 237.4 | - |
| 147.6                                  | 96.6  | 199.8* | 229.3 | -     | -                 | 229.3 | 297.6 | 314.2 | - | 164.0                              | 76.9  | 157.6* | 172.0 | -     | -                 | 176.4 | 228.5 | 236.6 | - |
| 150.9                                  | 94.1  | 197.3* | 229.3 | -     | -                 | 228.5 | 297.6 | 313.8 | - | 177.2                              | 69.7  | 151.0* | 172.0 | -     | -                 | 174.2 | 227.1 | 233.7 | - |
| 164.0                                  | 85.5  | 189.6* | 227.1 | -     | -                 | 224.9 | 295.4 | 310.9 | - | 190.3                              | 63.3  | 145.5* | 172.0 | -     | -                 | 171.2 | 221.9 | 229.3 | - |
| 170.6                                  | 81.8  | 185.7* | 223.8 | -     | -                 | 222.7 | 295.4 | 308.6 | - | 203.4                              | 57.8  | 140.0* | 169.8 | -     | -                 | 167.6 | 216.1 | 223.0 | - |
| 177.2                                  | 71.7* | 181.9* | 220.5 | -     | -                 | 220.5 | 295.4 | 306.4 | - | 210.0                              | 55.3  | 137.8* | 167.6 | -     | -                 | 165.3 | 212.7 | 219.0 | - |
| 180.4                                  | 70.1* | 179.7* | 219.1 | -     | -                 | 219.4 | 291.4 | 300.2 | - | 216.5                              | 47.6* | 135.6* | 165.3 | -     | -                 | 163.1 | 209.4 | 216.1 | - |
| 190.3                                  | -     | -      | 215.0 | -     | -                 | 216.1 | 279.3 | 281.5 | - | 219.8                              | 46.5* | 134.5* | 164.2 | -     | -                 | 162.0 | 207.6 | 213.7 | - |
| 203.4                                  | -     | -      | 207.2 | -     | -                 | 208.9 | 260.1 | 257.9 | - | 229.7                              | -     | -      | 160.9 | -     | -                 | 158.7 | 202.1 | 206.5 | - |
| 213.3                                  | -     | -      | 200.3 | 197.3 | -                 | 204.5 | 243.6 | 241.4 | - | 236.2                              | -     | -      | 158.2 | 144.4 | -                 | 156.5 | 198.4 | 201.7 | - |
| 216.5                                  | -     | -      | 198.4 | 197.3 | -                 | 202.8 | 238.1 | 235.9 | - | 242.8                              | -     | -      | 155.4 | 144.4 | -                 | 154.3 | 194.2 | 196.7 | - |
| 226.4                                  | -     | -      | 190.7 | 195.8 | -                 | 193.5 | 223.8 | 221.3 | - | 255.9                              | -     | -      | 149.9 | 144.4 | -                 | 149.9 | 186.3 | 185.2 | - |
| 229.7                                  | -     | -      | -     | 195.1 | -                 | 190.3 | 219.0 | 216.5 | - | 262.5                              | -     | -      | 146.6 | 144.4 | -                 | 148.1 | 179.3 | 178.2 | - |
| 242.8                                  | -     | -      | -     | 183.0 | -                 | 176.7 | 201.0 | 198.8 | - | 269.0                              | -     | -      | -     | 144.4 | -                 | 146.2 | 172.3 | 171.2 | - |
| 255.9                                  | -     | -      | -     | 170.9 | -                 | 162.0 | 184.1 | 181.9 | - | 282.2                              | -     | -      | -     | 143.3 | -                 | 139.1 | 159.1 | 157.6 | - |
| 269.0                                  | -     | -      | -     | 160.9 | -                 | 148.8 | 170.1 | 167.9 | - | 295.3                              | -     | -      | -     | 140.0 | -                 | 129.0 | 146.6 | 144.4 | - |
| 275.6                                  | -     | -      | -     | -     | 142.2             | 142.2 | 163.1 | 160.9 | - | 301.8                              | -     | -      | -     | 135.6 | 121.3             | 123.8 | 141.1 | 138.5 | - |
| 282.2                                  | -     | -      | -     | -     | 137.8             | 137.1 | 157.3 | 155.1 | - | 305.1                              | -     | -      | -     | 133.4 | 120.2             | 121.3 | 138.3 | 135.6 | - |
| 295.3                                  | -     | -      | -     | -     | 130.1             | 125.7 | 145.5 | 143.3 | - | 308.4                              | -     | -      | -     | -     | 117.9             | 118.7 | 135.6 | 132.6 | - |
| 305.1                                  | -     | -      | -     | -     | 125.7             | 117.9 | 136.9 | 135.0 | - | 321.5                              | -     | -      | -     | -     | 111.3             | 109.1 | 125.2 | 121.6 | - |
| 308.4                                  | -     | -      | -     | -     | -                 | 115.4 | 134.0 | 132.3 | - | 334.6                              | -     | -      | -     | -     | 106.3             | 100.1 | 114.6 | 111.3 | - |
| 321.5                                  | -     | -      | -     | -     | -                 | 106.0 | 123.8 | 121.3 | - | 344.5                              | -     | -      | -     | -     | 102.1             | 94.0  | 107.8 | 104.6 | - |
| 334.6                                  | -     | -      | -     | -     | -                 | 97.7  | 113.5 | 110.2 | - | 347.8                              | -     | -      | -     | -     | -                 | 92.0  | 105.5 | 102.4 | - |
| 347.8                                  | -     | -      | -     | -     | -                 | 88.8  | 100.3 | 97.6  | - | 360.9                              | -     | -      | -     | -     | -                 | 84.2  | 96.7  | 93.5  | - |
| 360.9                                  | -     | -      | -     | -     | -                 | 77.5  | 86.9  | 84.6  | - | 374.0                              | -     | -      | -     | -     | -                 | 77.2  | 88.2  | 84.9  | - |
| 374.0                                  | -     | -      | -     | -     | -                 | 65.3  | 74.7  | 71.2  | - | 387.1                              | -     | -      | -     | -     | -                 | 67.6  | 77.0  | 74.4  | - |
| 380.6                                  | -     | -      | -     | -     | -                 | 61.5  | 71.0  | 67.7  | - | 400.3                              | -     | -      | -     | -     | -                 | 57.7  | 65.6  | 63.5  | - |
|                                        |       |        |       |       |                   |       |       |       |   | 413.4                              | -     | -      | -     | -     | -                 | 49.2  | 55.1  | 52.0  | - |
|                                        |       |        |       |       |                   |       |       |       |   | 419.9                              | -     | -      | -     | -     | -                 | 46.1  | 52.2  | 48.9  | - |

|  |            |            |            |            |
|--|------------|------------|------------|------------|
|  | 0 lb       | 143,300 lb | 275,600 lb | 363,800 lb |
|  | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb |

SWSL\_1: 36.1 ft – 62.3 ft

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4: 496,100 lb + 110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  363,800 lb +  110,200 lb  36.1-68.9 ft                                                                                                                                                                                                                                                                                                                                                               |       |        |       |       |      |      |       |       |       |  27.6 ft  32.2 ft/s 360° ASME B30.5                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |        |      |      |      |       |       |       |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|-------|------|------|-------|-------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|------|------|------|-------|-------|-------|---|
|  255.9 ft +  236.2 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |        |       |       |      |      |       |       |       |  255.9 ft +  275.6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |        |      |      |      |       |       |       |   |
|   0 lb    0 lb - 716,600 lb  SWSL_1    SFSL_1    SFSL_3    SFSL_4 |       |        |       |       |      |      |       |       |       |   0 lb    0 lb - 716,600 lb  SWSL_1    SFSL_1    SFSL_3    SFSL_4 |       |        |      |      |      |       |       |       |   |
|  87°/85°  87°/85° 75° 65° 55°  15°  15°  15°                                                                                                                                                                                        |       |        |       |       |      |      |       |       |       |  87°/85°  87°/85° 75° 65° 55°  15°  15°  15°                                                                                                                                                                                            |       |        |      |      |      |       |       |       |   |
| ft 1,000 lb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |        |       |       |      |      |       |       |       | ft 1,000 lb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |        |      |      |      |       |       |       |   |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 138.9 | 142.2  | -     | -     | -    | -    | -     | -     | -     | 88.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 104.9 | 107.6  | -    | -    | -    | -     | -     | -     | - |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 137.8 | 141.1  | -     | -     | -    | -    | -     | -     | -     | 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 104.7 | 107.1  | -    | -    | -    | -     | -     | -     | - |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 135.6 | 140.0  | -     | -     | -    | -    | -     | -     | -     | 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 104.1 | 106.3  | -    | -    | -    | -     | -     | -     | - |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 125.7 | 141.1* | -     | -     | -    | -    | -     | -     | -     | 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 100.5 | 106.0* | -    | -    | -    | -     | -     | -     | - |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 110.2 | 138.9* | -     | -     | -    | -    | -     | -     | -     | 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 88.0  | 104.9* | -    | -    | -    | -     | -     | -     | - |
| 114.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 107.0 | 138.3* | -     | -     | -    | -    | 136.7 | -     | 180.8 | 128.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 85.3  | 104.5* | -    | -    | -    | 103.6 | 129.0 | 133.4 | - |
| 121.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 100.6 | 137.2* | -     | -     | -    | -    | 136.7 | 174.0 | 180.6 | 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 77.4  | 103.2* | -    | -    | -    | 103.2 | 129.0 | 133.4 | - |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 97.4  | 136.7* | -     | -     | -    | -    | 136.7 | 174.2 | 180.4 | 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 68.3  | 101.2* | -    | -    | -    | 102.6 | 128.2 | 131.9 | - |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 86.4  | 133.4* | -     | -     | -    | -    | 136.7 | 173.1 | 179.7 | 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 60.6  | 99.2*  | -    | -    | -    | 101.6 | 126.8 | 130.1 | - |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 76.9  | 130.1* | -     | -     | -    | -    | 135.2 | 171.6 | 177.5 | 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 53.8  | 97.0*  | -    | -    | -    | 100.1 | 124.6 | 127.9 | - |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 68.8  | 126.8* | -     | -     | -    | -    | 133.7 | 169.8 | 175.3 | 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 47.8  | 94.4*  | -    | -    | -    | 98.5  | 122.4 | 125.7 | - |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 61.7  | 122.4* | 125.7 | -     | -    | -    | 132.3 | 167.6 | 173.1 | 196.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 45.2  | 93.1*  | 91.5 | -    | -    | 97.7  | 121.3 | 124.6 | - |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 55.6  | 119.0* | 125.7 | -     | -    | -    | 130.1 | 164.6 | 169.4 | 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 42.5  | 91.9*  | 91.5 | -    | -    | 96.8  | 120.2 | 123.5 | - |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 50.0  | 114.6* | 125.7 | -     | -    | -    | 127.5 | 161.7 | 166.1 | 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 37.9  | 89.5*  | 91.5 | -    | -    | 94.8  | 117.9 | 121.3 | - |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 45.2  | 110.2* | 125.7 | -     | -    | -    | 124.6 | 158.7 | 163.1 | 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 33.5  | 86.9*  | 91.5 | -    | -    | 92.7  | 115.7 | 118.6 | - |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 41.0  | 107.4* | 124.6 | -     | -    | -    | 122.4 | 154.3 | 158.4 | 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 29.8  | 84.2*  | 91.5 | -    | -    | 90.6  | 113.1 | 115.7 | - |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 37.3  | 103.8* | 123.5 | -     | -    | -    | 119.8 | 151.0 | 154.3 | 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 26.5  | 81.8*  | 91.5 | -    | -    | 88.4  | 110.2 | 112.4 | - |
| 249.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 35.5  | 102.2* | 122.4 | -     | -    | -    | 118.3 | 148.8 | 152.1 | 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 23.1  | 79.4*  | 91.5 | -    | -    | 86.3  | 108.0 | 110.4 | - |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 28.9* | 100.5* | 121.3 | -     | -    | -    | 116.8 | 146.6 | 149.9 | 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 20.5  | 77.2*  | 91.3 | 74.5 | -    | 84.1  | 105.7 | 108.0 | - |
| 259.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | 120.4 | 105.6 | -    | -    | 115.2 | 145.9 | 149.0 | 285.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 19.8  | 76.6*  | 90.9 | 74.5 | -    | 83.6  | 105.2 | 107.4 | - |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | 117.9 | 105.6 | -    | -    | 113.5 | 143.7 | 146.2 | 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 13.7* | 74.7*  | 89.7 | 74.5 | -    | 82.0  | 103.4 | 105.4 | - |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | 115.7 | 105.6 | -    | -    | 110.3 | 140.4 | 142.2 | 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | 88.2 | 74.5 | -    | 79.6  | 100.8 | 102.7 | - |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | 111.3 | 105.6 | -    | -    | 107.6 | 136.7 | 137.8 | 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | 86.2 | 74.5 | -    | 77.5  | 98.4  | 99.9  | - |
| 301.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | 110.2 | 105.4 | -    | -    | 105.6 | 133.0 | 133.4 | 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | 84.2 | 74.3 | -    | 75.4  | 95.9  | 97.4  | - |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | 105.4 | -    | -    | 104.0 | 129.3 | 129.0 | 337.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | 83.8 | 74.3 | -    | 74.4  | 94.5  | 96.2  | - |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | 105.4 | -    | -    | 100.9 | 121.0 | 118.8 | 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -    | 74.3 | -    | 72.8  | 91.1  | 92.3  | - |
| 328.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | 104.9 | 88.8 | 99.3 | 116.2 | 114.2 | -     | 357.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -    | 74.3 | 61.3 | 71.0  | 87.6  | 88.4  | - |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | 104.7 | 88.2 | 97.7 | 111.3 | 109.6 | -     | 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -    | 74.3 | 61.1 | 70.2  | 86.4  | 87.0  | - |
| 344.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | 104.5 | 88.2 | 93.0 | 105.3 | 103.0 | -     | 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -    | 74.3 | 61.1 | 67.9  | 81.6  | 81.6  | - |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | 88.2 | 91.5 | 103.2 | 100.8 | -     | 380.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -    | 74.3 | 61.1 | 66.9  | 79.2  | 78.4  | - |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | 88.2 | 84.7 | 95.1  | 92.2  | -     | 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -    | -    | 61.1 | 65.8  | 76.9  | 75.3  | - |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | 84.7 | 77.6 | 86.9  | 84.0  | -     | 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -    | -    | 60.6 | 63.5  | 71.3  | 68.7  | - |
| 383.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | 81.6 | 72.6 | 81.1  | 78.3  | -     | 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -    | -    | 60.6 | 58.6  | 64.8  | 62.2  | - |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | -    | 71.0 | 79.3  | 76.4  | -     | 419.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -    | -    | 60.6 | 55.9  | 61.5  | 59.0  | - |
| 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | -    | 64.7 | 72.1  | 69.1  | -     | 426.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -    | -    | -    | 53.2  | 58.4  | 55.9  | - |
| 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | -    | 57.8 | 65.0  | 62.2  | -     | 439.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -    | -    | -    | 47.1  | 52.5  | 49.8  | - |
| 426.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | -    | 48.9 | 56.4  | 53.8  | -     | 452.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -    | -    | -    | 39.9  | 46.7  | 44.1  | - |
| 439.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | -    | 40.0 | 46.7  | 44.8  | -     | 465.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -    | -    | -    | 32.3  | 38.8  | 37.2  | - |
| 452.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | -    | 34.6 | 37.0  | 35.1  | -     | 479.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -    | -    | -    | 25.2  | 30.4  | 29.5  | - |
| 456.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | -    | 32.6 | 35.7  | 32.8  | -     | 492.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -    | -    | -    | 20.1  | 22.3  | 20.7  | - |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |        |       |       |      |      |       |       |       | 495.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -    | -    | -    | 18.1  | 21.2  | 18.5  | - |

 0 lb | 143,300 lb | 275,600 lb | 363,800 lb | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb

SWSL\_1:  36.1 ft – 62.3 ft

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4:  36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4:  496,100 lb +  110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  363,800 lb +  110,200 lb  36.1-68.9 ft                                                                                                                                                                                                                                                                                                                           |      |       |      |      |   |   |      |      |      |  27.6 ft  32.2 ft/s 360° ASME B30.5                                                                                                                                                                                                                                                                                                                                                                                                                      |        |        |       |       |       |       |       |       |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|------|------|---|---|------|------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|---|
|  255.9 ft +  315.0 ft                                                                                                                                                                                                                                                                                                                                                                                                                              |      |       |      |      |   |   |      |      |      |  275.6 ft +  78.7 ft                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |        |       |       |       |       |       |       |   |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4<br> 0 lb    0 lb - 716,600 lb<br> 87°/85° 87°/85° 75° 65° 55°  15°  15°  15° |      |       |      |      |   |   |      |      |      | SWSL_1   SFSL_1   SFSL_3   SFSL_4<br> 0 lb    0 lb - 716,600 lb<br> 87°/85° 87°/85° 75° 65° 55°  15°  15°  15° |        |        |       |       |       |       |       |       |   |
| ft 1,000 lb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |       |      |      |   |   |      |      |      | ft 1,000 lb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |        |       |       |       |       |       |       |   |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 77.2 | 79.4  | -    | -    | - | - | -    | -    | -    | 45.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 326.3  | 383.6  | -     | -     | -     | -     | -     | -     | - |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 76.3 | 78.0  | -    | -    | - | - | -    | -    | -    | 52.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 293.2  | 372.6  | -     | -     | -     | -     | -     | -     | - |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 75.0 | 77.4* | -    | -    | - | - | -    | -    | -    | 59.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 264.6  | 385.8* | -     | -     | -     | -     | -     | -     | - |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 69.0 | 76.7* | -    | -    | - | - | -    | -    | -    | 62.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 253.5  | 381.4* | -     | -     | -     | 374.8 | -     | 522.5 | - |
| 141.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 66.9 | 76.4* | -    | -    | - | - | 75.8 | 92.8 | 95.9 | 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 242.5  | 377.0* | -     | -     | -     | 374.8 | -     | 522.5 | - |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 60.4 | 75.4* | -    | -    | - | - | 75.3 | 92.2 | 95.2 | 68.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 232.6  | 371.5* | -     | -     | -     | 374.8 | 493.8 | 522.5 | - |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 52.7 | 74.3* | -    | -    | - | - | 74.6 | 91.3 | 94.2 | 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 222.7  | 366.0* | -     | -     | -     | 374.8 | 493.8 | 522.5 | - |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 46.3 | 72.8* | -    | -    | - | - | 73.9 | 90.4 | 93.0 | 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 206.1  | 352.7* | -     | -     | -     | 372.6 | 487.2 | 520.3 | - |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 40.6 | 71.4* | -    | -    | - | - | 72.4 | 88.5 | 91.3 | 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 191.8  | 341.7* | -     | -     | -     | 372.6 | 487.2 | 518.1 | - |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 35.3 | 69.7* | -    | -    | - | - | 70.9 | 86.6 | 89.4 | 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 179.7  | 330.7* | -     | -     | -     | 370.4 | 482.8 | 515.9 | - |
| 213.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 32.0 | 68.5* | 64.2 | -    | - | - | 69.8 | 85.1 | 88.0 | 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 169.8  | 319.7* | -     | -     | -     | 366.0 | 482.8 | 515.9 | - |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 30.9 | 68.1* | 64.2 | -    | - | - | 69.4 | 84.7 | 87.5 | 108.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 143.3* | 304.2* | -     | -     | -     | 361.6 | 471.8 | 501.6 | - |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 26.7 | 66.4* | 64.2 | -    | - | - | 67.8 | 82.9 | 85.5 | 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -      | -      | -     | -     | -     | 360.1 | 471.8 | 499.7 | - |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 22.9 | 64.8* | 64.2 | -    | - | - | 66.1 | 81.0 | 83.3 | 118.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -      | -      | 361.6 | -     | -     | 357.1 | 471.8 | 496.0 | - |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 19.6 | 63.1* | 64.2 | -    | - | - | 64.4 | 78.9 | 81.1 | 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -      | -      | 354.9 | -     | -     | 350.5 | 454.2 | 469.6 | - |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16.5 | 61.3* | 64.2 | -    | - | - | 62.6 | 76.7 | 79.0 | 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -      | -      | 335.1 | -     | -     | 341.7 | 418.9 | 416.7 | - |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 13.7 | 59.5* | 64.2 | -    | - | - | 60.8 | 74.6 | 76.6 | 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -      | -      | 315.3 | -     | -     | 331.4 | 374.8 | 372.6 | - |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 11.0 | 58.0* | 64.2 | -    | - | - | 59.1 | 72.3 | 74.3 | 154.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -      | -      | 308.6 | -     | -     | 328.9 | 363.8 | 361.6 | - |
| 301.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9.8  | 57.2* | 64.2 | 49.6 | - | - | 58.4 | 71.2 | 72.9 | 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -      | -      | -     | -     | -     | 309.4 | 335.1 | 332.9 | - |
| 305.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9.3  | 56.8* | 64.2 | 49.6 | - | - | 58.0 | 70.7 | 72.3 | 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -      | -      | -     | 273.4 | -     | 275.6 | 299.8 | 297.6 | - |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 56.4* | 64.2 | 49.6 | - | - | 57.5 | 70.1 | 71.7 | 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -      | -      | -     | 251.3 | -     | 249.1 | 273.4 | 269.7 | - |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 54.9* | 63.7 | 49.6 | - | - | 55.8 | 67.9 | 69.4 | 200.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -      | -      | -     | 238.1 | -     | 230.4 | 254.4 | 250.2 | - |
| 324.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 54.6* | 63.6 | 49.6 | - | - | 55.3 | 67.4 | 68.8 | 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -      | -      | -     | -     | -     | 224.9 | 248.7 | 244.7 | - |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 53.6* | 63.3 | 49.6 | - | - | 54.0 | 65.7 | 66.8 | 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -      | -      | -     | -     | -     | 202.8 | 224.9 | 222.7 | - |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | 62.8 | 49.6 | - | - | 52.5 | 63.5 | 64.4 | 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -      | -      | -     | -     | -     | 185.9 | 206.5 | 204.3 | - |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | 61.9 | 49.6 | - | - | 50.7 | 61.0 | 61.9 | 232.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -      | -      | -     | -     | 181.9 | 181.7 | 201.9 | 199.7 | - |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | 61.3 | 49.6 | - | - | 49.2 | 59.1 | 59.7 | 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -      | -      | -     | -     | 174.2 | 170.1 | 189.6 | 187.0 | - |
| 377.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | 61.1 | 49.6 | - | - | 48.6 | 58.6 | 59.2 | 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -      | -      | -     | -     | -     | 155.4 | 174.2 | 170.9 | - |
| 383.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | 49.6 | - | - | 47.8 | 57.8 | 58.1 | 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -      | -      | -     | -     | -     | 142.2 | 160.2 | 157.6 | - |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | 49.6 | - | - | 47.5 | 57.3 | 57.5 | 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -      | -      | -     | -     | -     | 130.1 | 147.3 | 144.4 | - |
| 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | 49.6 | - | - | 45.9 | 55.5 | 55.3 | 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -      | -      | -     | -     | -     | 119.0 | 130.1 | 127.9 | - |
| 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | 49.6 | - | - | 44.3 | 53.6 | 53.1 | 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -      | -      | -     | -     | -     | 104.2 | 112.7 | 110.2 | - |
| 419.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | 49.6 | - | - | 43.7 | 52.7 | 52.0 | 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -      | -      | -     | -     | -     | 88.6  | 99.6  | 95.5  | - |
| 426.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | -    | - | - | 42.4 | 51.8 | 50.9 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |        |       |       |       |       |       |       |   |
| 439.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | -    | - | - | 40.8 | 49.3 | 47.9 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |        |       |       |       |       |       |       |   |
| 452.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | -    | - | - | 39.2 | 45.4 | 43.0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |        |       |       |       |       |       |       |   |
| 459.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | -    | - | - | 37.3 | 42.8 | 40.4 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |        |       |       |       |       |       |       |   |
| 465.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | -    | - | - | 35.3 | 40.3 | 37.8 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |        |       |       |       |       |       |       |   |
| 479.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | -    | - | - | 30.1 | 35.2 | 32.6 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |        |       |       |       |       |       |       |   |
| 492.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | -    | - | - | 23.4 | 30.4 | 27.8 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |        |       |       |       |       |       |       |   |
| 518.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | -    | - | - | 12.3 | 16.2 | 14.4 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |        |       |       |       |       |       |       |   |
| 524.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | -    | - | - | 9.7  | 12.3 | 10.6 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |        |       |       |       |       |       |       |   |
| 528.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | -    | - | - | -    | 10.4 | -    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |        |       |       |       |       |       |       |   |

 0 lb 143,300 lb 275,600 lb 363,800 lb  
452,000 lb 540,200 lb 628,400 lb 716,600 lb

SWSL\_1:  36.1 ft – 62.3 ft

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4:  36.1 ft – 68.9 ft

SESL\_3 + SESL\_4:  496,100 lb +  110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|                                                                                     |            |            |            |            |
|-------------------------------------------------------------------------------------|------------|------------|------------|------------|
|  | 0 lb       | 143,300 lb | 275,600 lb | 363,800 lb |
|  | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb |

SWSL\_1:  36.1 ft – 62.3 ft

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4:  36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4:  496,100 lb +  110,200 lb



|  363,800 lb +  110,200 lb  36.1-68.9 ft                                                                                                                                                                                                                                                                                                                                                                                                             |        |        |       |   |   |   |   |   |   |  27.6 ft  32.2 ft/s 360° ASME B30.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |        |       |       |       |       |   |   |   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|-------|---|---|---|---|---|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|-------|-------|-------|---|---|---|
|  275.6 ft +  118.1 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |        |       |   |   |   |   |   |   |  275.6 ft +  157.5 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |        |       |       |       |       |   |   |   |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4<br> 0 lb    0 lb - 716,600 lb<br> 87°/85°  87°/85° 75° 65° 55°  15°  15°  15° |        |        |       |   |   |   |   |   |   | SWSL_1   SFSL_1   SFSL_3   SFSL_4<br> 0 lb    0 lb - 716,600 lb<br> 87°/85°  87°/85° 75° 65° 55°  15°  15°  15° |       |        |       |       |       |       |   |   |   |
| ft 1,000 lb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |        |       |   |   |   |   |   |   | ft 1,000 lb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |        |       |       |       |       |   |   |   |
| 52.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 271.2  | 293.2  | -     | - | - | - | - | - | - | 62.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 216.1 | 222.7  | -     | -     | -     | -     | - | - | - |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 244.7  | 286.6  | -     | - | - | - | - | - | - | 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 207.2 | 220.5  | -     | -     | -     | -     | - | - | - |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 224.9  | 282.2  | -     | - | - | - | - | - | - | 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 190.7 | 218.3  | -     | -     | -     | -     | - | - | - |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 206.1  | 291.0* | -     | - | - | - | - | - | - | 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 176.4 | 222.7* | -     | -     | -     | -     | - | - | - |
| 75.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 198.4  | 287.7* | -     | - | - | - | - | - | - | 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 163.1 | 220.5* | -     | -     | -     | -     | - | - | - |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 190.7  | 284.4* | -     | - | - | - | - | - | - | 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 152.1 | 217.2* | -     | -     | -     | -     | - | - | - |
| 82.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 184.1  | 281.1* | -     | - | - | - | - | - | - | 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 142.2 | 213.8* | -     | -     | -     | -     | - | - | - |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 177.5  | 277.8* | -     | - | - | - | - | - | - | 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 125.7 | 205.0* | -     | -     | -     | -     | - | - | - |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 165.3  | 271.2* | -     | - | - | - | - | - | - | 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 111.3 | 196.2* | -     | -     | -     | -     | - | - | - |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 155.4  | 264.6* | -     | - | - | - | - | - | - | 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 100.1 | 187.4* | -     | -     | -     | -     | - | - | - |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 136.7  | 249.1* | -     | - | - | - | - | - | - | 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 90.4  | 178.6* | 206.1 | -     | -     | -     | - | - | - |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 122.4  | 235.9* | -     | - | - | - | - | - | - | 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 82.2  | 170.9* | 203.9 | -     | -     | -     | - | - | - |
| 134.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 113.5  | 226.0* | 271.2 | - | - | - | - | - | - | 173.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 76.9  | 165.1* | 200.6 | -     | -     | -     | - | - | - |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 102.3* | 222.7* | 271.2 | - | - | - | - | - | - | 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 67.9* | 163.1* | 199.5 | -     | -     | -     | - | - | - |
| 144.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 97.4*  | 218.3* | 267.5 | - | - | - | - | - | - | 183.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 65.0* | 159.8* | 196.2 | -     | -     | -     | - | - | - |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      | 264.6  | -     | - | - | - | - | - | - | 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -      | 192.9 | -     | -     | -     | - | - | - |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      | 253.5  | -     | - | - | - | - | - | - | 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -      | 185.2 | -     | -     | -     | - | - | - |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      | 240.3  | -     | - | - | - | - | - | - | 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -      | 178.6 | -     | -     | -     | - | - | - |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      | 224.9  | -     | - | - | - | - | - | - | 223.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -      | 174.2 | 176.4 | -     | -     | - | - | - |
| 193.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      | 222.7  | -     | - | - | - | - | - | - | 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -      | 169.8 | 175.3 | -     | -     | - | - | - |
| 200.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      | -      | 229.3 | - | - | - | - | - | - | 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -      | -     | 174.2 | -     | -     | - | - | - |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      | -      | 227.1 | - | - | - | - | - | - | 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -      | -     | 167.6 | -     | -     | - | - | - |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      | -      | 211.6 | - | - | - | - | - | - | 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -      | -     | 157.6 | -     | -     | - | - | - |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      | -      | 197.3 | - | - | - | - | - | - | 275.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -      | -     | 153.2 | -     | -     | - | - | - |
| 236.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      | -      | 190.7 | - | - | - | - | - | - | 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -      | -     | -     | -     | -     | - | - | - |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | - | - | - | - | - | - | 285.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -      | -     | -     | 130.1 | -     | - | - | - |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | - | - | - | - | - | - | 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -      | -     | -     | 124.6 | -     | - | - | - |
| 259.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | - | - | - | - | - | - | 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -      | -     | -     | 117.9 | -     | - | - | - |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | - | - | - | - | - | - | 318.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -      | -     | -     | 113.5 | -     | - | - | - |
| 278.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | - | - | - | - | - | - | 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -      | -     | -     | -     | 103.7 | - | - | - |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | - | - | - | - | - | - | 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -      | -     | -     | -     | 94.6  | - | - | - |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | - | - | - | - | - | - | 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -      | -     | -     | -     | 86.6  | - | - | - |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | - | - | - | - | - | - | 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -      | -     | -     | -     | 78.0  | - | - | - |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | - | - | - | - | - | - | 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -      | -     | -     | -     | 68.8  | - | - | - |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | - | - | - | - | - | - | 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -      | -     | -     | -     | 57.5  | - | - | - |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | - | - | - | - | - | - | 397.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -      | -     | -     | -     | 50.9  | - | - | - |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      | -      | -     | - | - | - | - | - | - |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |        |       |       |       |       |   |   |   |

 0 lb | 143,300 lb | 275,600 lb | 363,800 lb | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb

SWSL\_1:  36.1 ft – 62.3 ft

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4:  36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4:  496,100 lb +  110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

| 363,800 lb +  110,200 lb  36.1-68.9 ft |       |        |       |       |                   |       |       |       |   | 27.6 ft  32.2 ft/s 360° ASME B30.5 |       |        |       |      |                   |       |       |       |   |
|----------------------------------------|-------|--------|-------|-------|-------------------|-------|-------|-------|---|------------------------------------|-------|--------|-------|------|-------------------|-------|-------|-------|---|
| 275.6 ft +  196.9 ft                   |       |        |       |       |                   |       |       |       |   | 275.6 ft +  236.2 ft               |       |        |       |      |                   |       |       |       |   |
| SWSL_1                                 |       |        |       |       | SFSL_1            |       |       |       |   | SWSL_1                             |       |        |       |      | SFSL_1            |       |       |       |   |
| 0 lb                                   |       |        |       |       | 0 lb - 716,600 lb |       |       |       |   | 0 lb                               |       |        |       |      | 0 lb - 716,600 lb |       |       |       |   |
| 87°/85° 87°/85° 75° 65° 55°            |       |        |       |       | 15° 15° 15°       |       |       |       |   | 87°/85° 87°/85° 75° 65° 55°        |       |        |       |      | 15° 15° 15°       |       |       |       |   |
| ft                                     |       |        |       |       | 1,000 lb          |       |       |       |   | ft                                 |       |        |       |      | 1,000 lb          |       |       |       |   |
| 72.2                                   | 168.7 | 172.0  | -     | -     | -                 | -     | -     | -     | - | 78.7                               | 127.9 | 131.2  | -     | -    | -                 | -     | -     | -     | - |
| 78.7                                   | 163.1 | 169.8  | -     | -     | -                 | -     | -     | -     | - | 85.3                               | 126.8 | 130.1  | -     | -    | -                 | -     | -     | -     | - |
| 85.3                                   | 151.0 | 167.6  | -     | -     | -                 | -     | -     | -     | - | 91.9                               | 125.7 | 127.9  | -     | -    | -                 | -     | -     | -     | - |
| 91.9                                   | 141.1 | 170.9* | -     | -     | -                 | -     | -     | -     | - | 98.4                               | 120.2 | 130.1* | -     | -    | -                 | -     | -     | -     | - |
| 98.4                                   | 131.2 | 169.8* | -     | -     | -                 | -     | -     | -     | - | 111.5                              | 105.6 | 127.9* | -     | -    | -                 | -     | -     | -     | - |
| 105.0                                  | 122.9 | 167.6* | -     | -     | -                 | 166.4 | 220.5 | 231.5 | - | 118.1                              | 99.3  | 126.2* | -     | -    | -                 | 125.7 | -     | 174.2 | - |
| 111.5                                  | 114.6 | 165.3* | -     | -     | -                 | 165.9 | 220.5 | 231.5 | - | 124.7                              | 93.0  | 124.6* | -     | -    | -                 | 125.3 | 167.6 | 173.8 | - |
| 124.7                                  | 102.3 | 159.8* | -     | -     | -                 | 165.0 | 220.5 | 231.5 | - | 137.8                              | 82.5  | 122.4* | -     | -    | -                 | 124.6 | 166.4 | 173.1 | - |
| 137.8                                  | 91.3  | 154.3* | -     | -     | -                 | 164.2 | 220.5 | 231.5 | - | 150.9                              | 73.4  | 119.0* | -     | -    | -                 | 123.1 | 165.7 | 171.6 | - |
| 150.9                                  | 81.8  | 148.8* | -     | -     | -                 | 162.0 | 220.5 | 230.0 | - | 164.0                              | 65.7  | 114.6* | -     | -    | -                 | 121.6 | 164.2 | 169.8 | - |
| 164.0                                  | 73.6  | 143.3* | -     | -     | -                 | 159.8 | 219.4 | 227.8 | - | 177.2                              | 58.9  | 111.3* | -     | -    | -                 | 120.2 | 162.0 | 167.6 | - |
| 167.3                                  | 71.9  | 141.6* | 153.2 | -     | -                 | 159.3 | 218.8 | 227.1 | - | 183.7                              | 55.9  | 109.6* | 114.6 | -    | -                 | 119.0 | 160.9 | 166.1 | - |
| 177.2                                  | 66.6  | 136.7* | 153.2 | -     | -                 | 157.6 | 217.2 | 224.9 | - | 190.3                              | 52.9  | 107.8* | 114.6 | -    | -                 | 117.9 | 159.8 | 164.6 | - |
| 190.3                                  | 60.6  | 131.2* | 152.1 | -     | -                 | 154.7 | 213.5 | 221.2 | - | 203.4                              | 47.6  | 103.8* | 114.6 | -    | -                 | 116.2 | 157.3 | 161.7 | - |
| 203.4                                  | 55.3  | 126.8* | 149.9 | -     | -                 | 151.2 | 209.4 | 216.1 | - | 216.5                              | 43.0  | 100.1* | 113.5 | -    | -                 | 113.5 | 154.3 | 158.7 | - |
| 210.0                                  | 52.9  | 124.6* | 147.7 | -     | -                 | 149.5 | 207.2 | 213.1 | - | 229.7                              | 38.8  | 96.6*  | 113.5 | -    | -                 | 111.2 | 150.8 | 155.4 | - |
| 216.5                                  | 44.5* | 122.4* | 145.5 | -     | -                 | 147.7 | 205.0 | 210.5 | - | 242.8                              | 35.1  | 93.0*  | 111.3 | -    | -                 | 108.5 | 147.0 | 151.0 | - |
| 219.8                                  | 43.4* | 121.3* | 144.4 | -     | -                 | 146.8 | 202.6 | 208.1 | - | 249.3                              | 33.5  | 91.5*  | 110.2 | -    | -                 | 107.1 | 145.1 | 148.8 | - |
| 229.7                                  | -     | -      | 141.1 | -     | -                 | 144.0 | 196.0 | 200.8 | - | 255.9                              | 26.5* | 89.9*  | 109.1 | -    | -                 | 105.6 | 143.3 | 146.6 | - |
| 242.8                                  | -     | -      | 135.6 | 130.1 | -                 | 139.3 | 187.8 | 191.1 | - | 259.2                              | 25.6* | 89.1*  | 108.4 | -    | -                 | 104.9 | 142.4 | 145.5 | - |
| 255.9                                  | -     | -      | 130.1 | 130.1 | -                 | 135.6 | 179.7 | 180.8 | - | 265.7                              | -     | -      | 106.8 | 95.0 | -                 | 103.5 | 140.5 | 143.3 | - |
| 269.0                                  | -     | -      | 124.6 | 130.1 | -                 | 130.8 | 167.2 | 166.8 | - | 269.0                              | -     | -      | 106.0 | 95.0 | -                 | 102.7 | 139.6 | 142.2 | - |
| 282.2                                  | -     | -      | -     | 126.8 | -                 | 126.8 | 154.3 | 152.9 | - | 282.2                              | -     | -      | 103.0 | 95.0 | -                 | 99.9  | 136.0 | 137.8 | - |
| 295.3                                  | -     | -      | -     | 123.5 | -                 | 122.4 | 141.1 | 138.9 | - | 295.3                              | -     | -      | 99.2  | 95.0 | -                 | 97.0  | 132.3 | 133.4 | - |
| 308.4                                  | -     | -      | -     | 119.0 | -                 | 114.0 | 130.1 | 127.5 | - | 305.1                              | -     | -      | 96.3  | 95.0 | -                 | 94.6  | 128.1 | 127.0 | - |
| 311.7                                  | -     | -      | -     | 117.4 | 107.4             | 111.9 | 127.3 | 124.9 | - | 308.4                              | -     | -      | -     | 95.0 | -                 | 93.8  | 126.8 | 124.3 | - |
| 315.0                                  | -     | -      | -     | 115.7 | 107.4             | 109.8 | 124.6 | 122.4 | - | 321.5                              | -     | -      | -     | 94.6 | -                 | 90.1  | 116.4 | 114.1 | - |
| 321.5                                  | -     | -      | -     | -     | 105.6             | 105.2 | 119.8 | 117.3 | - | 334.6                              | -     | -      | -     | 93.3 | -                 | 86.9  | 106.7 | 104.1 | - |
| 334.6                                  | -     | -      | -     | -     | 99.9              | 96.1  | 110.2 | 107.1 | - | 341.2                              | -     | -      | -     | 91.9 | 78.5              | 85.1  | 102.4 | 99.8  | - |
| 347.8                                  | -     | -      | -     | -     | 94.6              | 88.0  | 101.0 | 97.9  | - | 347.8                              | -     | -      | -     | 90.6 | 77.8              | 83.3  | 98.2  | 95.5  | - |
| 354.3                                  | -     | -      | -     | -     | 92.2              | 84.0  | 96.3  | 93.3  | - | 351.1                              | -     | -      | -     | 89.7 | 77.8              | 82.6  | 96.0  | 93.4  | - |
| 360.9                                  | -     | -      | -     | -     | -                 | 80.4  | 92.0  | 88.8  | - | 360.9                              | -     | -      | -     | -    | 77.8              | 79.1  | 89.9  | 87.3  | - |
| 374.0                                  | -     | -      | -     | -     | -                 | 73.2  | 83.6  | 80.5  | - | 374.0                              | -     | -      | -     | -    | 77.8              | 73.6  | 82.0  | 79.1  | - |
| 387.1                                  | -     | -      | -     | -     | -                 | 66.7  | 75.8  | 72.7  | - | 387.1                              | -     | -      | -     | -    | 75.0              | 67.1  | 74.7  | 71.8  | - |
| 400.3                                  | -     | -      | -     | -     | -                 | 58.8  | 67.0  | 65.3  | - | 393.7                              | -     | -      | -     | -    | 73.0              | 63.9  | 71.0  | 68.1  | - |
| 413.4                                  | -     | -      | -     | -     | -                 | 49.4  | 56.9  | 54.9  | - | 400.3                              | -     | -      | -     | -    | -                 | 60.9  | 67.5  | 64.6  | - |
| 426.5                                  | -     | -      | -     | -     | -                 | 40.0  | 46.3  | 44.3  | - | 413.4                              | -     | -      | -     | -    | -                 | 54.9  | 60.6  | 57.8  | - |
| 436.4                                  | -     | -      | -     | -     | -                 | 36.4  | 40.1  | 37.0  | - | 426.5                              | -     | -      | -     | -    | -                 | 48.1  | 54.3  | 51.4  | - |
|                                        |       |        |       |       |                   |       |       |       |   | 439.6                              | -     | -      | -     | -    | -                 | 40.7  | 47.0  | 45.0  | - |
|                                        |       |        |       |       |                   |       |       |       |   | 452.8                              | -     | -      | -     | -    | -                 | 32.6  | 38.4  | 37.9  | - |
|                                        |       |        |       |       |                   |       |       |       |   | 465.9                              | -     | -      | -     | -    | -                 | 26.2  | 29.2  | 28.7  | - |
|                                        |       |        |       |       |                   |       |       |       |   | 475.7                              | -     | -      | -     | -    | -                 | 21.6  | 23.8  | 21.8  | - |

SWSL\_1: 36.1 ft – 62.3 ft  
 SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 36.1 ft – 68.9 ft  
 SFSL\_3 + SFSL\_4: 496,100 lb + 110,200 lb

\* Main boom angle 85°  
 Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

| 363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s 360° ASME B30.5 |       |       |      |      |      |      |       |       |   |
|----------------------------------------------------------------------------|-------|-------|------|------|------|------|-------|-------|---|
| 275.6 ft +  275.6 ft                                                       |       |       |      |      |      |      |       |       |   |
| 275.6 ft +  315.0 ft                                                       |       |       |      |      |      |      |       |       |   |
| 0 lb  0 lb - 716,600 lb                                                    |       |       |      |      |      |      |       |       |   |
| 87°/85°  87°/85° 75° 65° 55°  15°  15°  15°                                |       |       |      |      |      |      |       |       |   |
| ft 1,000 lb                                                                |       |       |      |      |      |      |       |       |   |
| 88.6                                                                       | 96.3  | 99.2  | -    | -    | -    | -    | -     | -     | - |
| 91.9                                                                       | 96.1  | 98.8  | -    | -    | -    | -    | -     | -     | - |
| 98.4                                                                       | 95.5  | 97.9  | -    | -    | -    | -    | -     | -     | - |
| 111.5                                                                      | 93.3  | 97.4* | -    | -    | -    | -    | -     | -     | - |
| 124.7                                                                      | 83.8  | 96.1* | -    | -    | -    | -    | -     | -     | - |
| 131.2                                                                      | 78.7  | 95.2* | -    | -    | -    | 94.6 | 124.6 | 129.0 | - |
| 137.8                                                                      | 73.6  | 94.4* | -    | -    | -    | 94.1 | 124.6 | 129.0 | - |
| 150.9                                                                      | 65.0  | 92.6* | -    | -    | -    | 93.5 | 123.9 | 128.2 | - |
| 164.0                                                                      | 57.3  | 90.4* | -    | -    | -    | 92.6 | 122.7 | 126.8 | - |
| 177.2                                                                      | 50.9  | 88.2* | -    | -    | -    | 91.3 | 121.3 | 124.6 | - |
| 190.3                                                                      | 45.2  | 85.5* | -    | -    | -    | 89.8 | 119.0 | 122.4 | - |
| 200.1                                                                      | 41.2  | 83.7* | 83.3 | -    | -    | 88.7 | 117.4 | 120.7 | - |
| 203.4                                                                      | 39.9  | 83.1* | 83.3 | -    | -    | 88.3 | 116.8 | 120.2 | - |
| 216.5                                                                      | 35.5  | 80.7* | 83.3 | -    | -    | 86.6 | 114.6 | 117.9 | - |
| 229.7                                                                      | 31.3  | 78.0* | 83.3 | -    | -    | 84.7 | 112.9 | 116.1 | - |
| 242.8                                                                      | 27.6  | 75.4* | 83.3 | -    | -    | 82.7 | 110.4 | 113.2 | - |
| 255.9                                                                      | 24.3  | 73.0* | 83.1 | -    | -    | 80.7 | 108.5 | 110.2 | - |
| 269.0                                                                      | 21.4  | 70.5* | 82.2 | -    | -    | 78.6 | 106.0 | 108.3 | - |
| 282.2                                                                      | 18.5  | 68.3* | 81.4 | -    | -    | 76.5 | 103.8 | 106.2 | - |
| 288.7                                                                      | 17.4  | 67.2* | 80.6 | 66.8 | -    | 75.4 | 102.6 | 104.9 | - |
| 295.3                                                                      | 11.5* | 66.1* | 79.8 | 66.8 | -    | 74.3 | 101.4 | 103.8 | - |
| 298.6                                                                      | 10.8* | 65.5* | 79.4 | 66.8 | -    | 73.8 | 100.8 | 103.2 | - |
| 308.4                                                                      | -     | -     | 78.0 | 66.8 | -    | 72.2 | 99.1  | 101.3 | - |
| 321.5                                                                      | -     | -     | 76.1 | 66.8 | -    | 70.2 | 96.6  | 98.7  | - |
| 334.6                                                                      | -     | -     | 73.9 | 66.8 | -    | 68.1 | 94.4  | 96.3  | - |
| 344.5                                                                      | -     | -     | 72.1 | 66.8 | -    | 66.1 | 91.7  | 92.6  | - |
| 347.8                                                                      | -     | -     | -    | 66.8 | -    | 65.5 | 90.8  | 91.3  | - |
| 360.9                                                                      | -     | -     | -    | 66.8 | -    | 63.2 | 86.3  | 85.2  | - |
| 367.5                                                                      | -     | -     | -    | 66.8 | 53.6 | 62.0 | 83.3  | 81.5  | - |
| 374.0                                                                      | -     | -     | -    | 66.8 | 53.6 | 60.8 | 80.0  | 77.8  | - |
| 387.1                                                                      | -     | -     | -    | 66.1 | 53.6 | 57.9 | 73.1  | 70.8  | - |
| 390.4                                                                      | -     | -     | -    | 66.1 | 53.6 | 57.3 | 71.4  | 69.0  | - |
| 400.3                                                                      | -     | -     | -    | -    | 53.6 | 55.5 | 66.4  | 64.0  | - |
| 413.4                                                                      | -     | -     | -    | -    | 53.1 | 53.1 | 59.7  | 57.5  | - |
| 426.5                                                                      | -     | -     | -    | -    | 53.1 | 48.9 | 53.7  | 51.4  | - |
| 433.1                                                                      | -     | -     | -    | -    | 53.1 | 46.7 | 50.7  | 48.3  | - |
| 439.6                                                                      | -     | -     | -    | -    | -    | 44.2 | 47.8  | 45.4  | - |
| 452.8                                                                      | -     | -     | -    | -    | -    | 39.0 | 42.1  | 39.7  | - |
| 465.9                                                                      | -     | -     | -    | -    | -    | 32.0 | 36.8  | 34.2  | - |
| 479.0                                                                      | -     | -     | -    | -    | -    | 24.9 | 31.0  | 28.5  | - |
| 492.1                                                                      | -     | -     | -    | -    | -    | 18.1 | 23.6  | 22.5  | - |
| 511.8                                                                      | -     | -     | -    | -    | -    | 10.1 | 11.7  | 10.4  | - |

|       |      |       |      |      |      |      |      |      |   |
|-------|------|-------|------|------|------|------|------|------|---|
| 98.4  | 70.5 | 72.8  | -    | -    | -    | -    | -    | -    | - |
| 111.5 | 69.7 | 71.7  | -    | -    | -    | -    | -    | -    | - |
| 124.7 | 68.8 | 71.0* | -    | -    | -    | -    | -    | -    | - |
| 137.8 | 65.9 | 70.1* | -    | -    | -    | -    | -    | -    | - |
| 144.4 | 61.6 | 69.4* | -    | -    | -    | 69.0 | 89.9 | -    | - |
| 150.9 | 57.3 | 68.8* | -    | -    | -    | 68.7 | 89.5 | 92.2 | - |
| 164.0 | 50.3 | 67.7* | -    | -    | -    | 68.0 | 88.7 | 91.8 | - |
| 177.2 | 43.7 | 66.1* | -    | -    | -    | 67.2 | 88.0 | 91.1 | - |
| 190.3 | 38.1 | 64.6* | -    | -    | -    | 66.0 | 86.3 | 89.3 | - |
| 203.4 | 33.1 | 63.1* | -    | -    | -    | 64.6 | 84.7 | 87.5 | - |
| 216.5 | 28.7 | 61.3* | 58.0 | -    | -    | 63.3 | 83.1 | 85.5 | - |
| 229.7 | 24.7 | 59.7* | 58.0 | -    | -    | 61.8 | 81.6 | 83.6 | - |
| 242.8 | 21.2 | 58.0* | 58.0 | -    | -    | 60.3 | 79.9 | 81.7 | - |
| 255.9 | 17.6 | 56.2* | 58.0 | -    | -    | 58.6 | 78.3 | 79.8 | - |
| 269.0 | 14.8 | 54.5* | 58.0 | -    | -    | 57.1 | 76.7 | 77.7 | - |
| 282.2 | 12.1 | 52.7* | 58.0 | -    | -    | 55.4 | 74.6 | 75.5 | - |
| 295.3 | 9.5  | 50.9* | 57.8 | -    | -    | 53.8 | 72.1 | 73.4 | - |
| 298.6 | 8.8  | 50.5* | 57.8 | -    | -    | 53.4 | 71.5 | 72.9 | - |
| 308.4 | -    | 49.4* | 57.8 | -    | -    | 52.2 | 69.7 | 71.3 | - |
| 311.7 | -    | 49.0* | 57.8 | 44.1 | -    | 51.8 | 69.2 | 70.8 | - |
| 321.5 | -    | 47.8* | 57.1 | 44.1 | -    | 50.6 | 67.5 | 69.1 | - |
| 324.8 | -    | 47.5* | 56.8 | 44.1 | -    | 50.3 | 66.9 | 68.6 | - |
| 334.6 | -    | 46.3* | 56.0 | 44.1 | -    | 48.9 | 65.3 | 66.8 | - |
| 347.8 | -    | -     | 54.9 | 44.1 | -    | 47.4 | 63.0 | 64.6 | - |
| 360.9 | -    | -     | 53.8 | 44.1 | -    | 45.6 | 60.8 | 62.5 | - |
| 374.0 | -    | -     | 52.5 | 44.1 | -    | 44.1 | 58.4 | 60.4 | - |
| 383.9 | -    | -     | 51.6 | 44.1 | -    | 42.9 | 56.2 | 57.8 | - |
| 387.1 | -    | -     | -    | 44.1 | -    | 42.5 | 55.6 | 57.0 | - |
| 397.0 | -    | -     | -    | 44.1 | 33.5 | 41.2 | 53.6 | 54.7 | - |
| 400.3 | -    | -     | -    | 44.1 | 33.5 | 40.8 | 52.9 | 53.9 | - |
| 413.4 | -    | -     | -    | 44.1 | 33.5 | 38.8 | 50.3 | 50.7 | - |
| 426.5 | -    | -     | -    | 44.1 | 33.5 | 37.3 | 47.6 | 47.6 | - |
| 439.6 | -    | -     | -    | -    | 33.3 | 35.1 | 44.4 | 43.5 | - |
| 452.8 | -    | -     | -    | -    | 33.3 | 33.3 | 40.6 | 38.4 | - |
| 465.9 | -    | -     | -    | -    | 33.3 | 31.4 | 35.4 | 33.1 | - |
| 469.2 | -    | -     | -    | -    | 33.3 | 30.9 | 34.1 | 31.9 | - |
| 479.0 | -    | -     | -    | -    | -    | 29.1 | 30.5 | 28.2 | - |
| 492.1 | -    | -     | -    | -    | -    | 24.5 | 25.8 | 23.4 | - |
| 518.4 | -    | -     | -    | -    | -    | 11.9 | 15.9 | 13.9 | - |
| 528.2 | -    | -     | -    | -    | -    | 9.0  | 11.4 | 9.9  | - |
| 531.5 | -    | -     | -    | -    | -    | -    | 9.9  | -    | - |

0 lb 
 143,300 lb 
 275,600 lb 
 363,800 lb 
 452,000 lb 
 540,200 lb 
 628,400 lb 
 716,600 lb

SWSL\_1: 36.1 ft – 62.3 ft

SWSL\_3 / SFSL\_3, SWSL\_4 / SFSL\_4: 36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4: 496,100 lb + 110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

| 363,800 lb +  110,200 lb  36.1-68.9 ft |        |        |       |       |                   |       |       |       |   | 27.6 ft  32.2 ft/s 360° ASME B30.5 |       |        |       |       |                   |       |       |       |   |
|----------------------------------------|--------|--------|-------|-------|-------------------|-------|-------|-------|---|------------------------------------|-------|--------|-------|-------|-------------------|-------|-------|-------|---|
| 295.3 ft +  78.7 ft                    |        |        |       |       |                   |       |       |       |   | 295.3 ft +  118.1 ft               |       |        |       |       |                   |       |       |       |   |
| SWSL_1                                 |        |        |       |       | SFSL_1            |       |       |       |   | SWSL_1                             |       |        |       |       | SFSL_1            |       |       |       |   |
| 0 lb                                   |        |        |       |       | 0 lb - 716,600 lb |       |       |       |   | 0 lb                               |       |        |       |       | 0 lb - 716,600 lb |       |       |       |   |
| 87°/85° 87°/85° 75° 65° 55°            |        |        |       |       | 15° 15° 15°       |       |       |       |   | 87°/85° 87°/85° 75° 65° 55°        |       |        |       |       | 15° 15° 15°       |       |       |       |   |
| ft                                     |        |        |       |       | 1,000 lb          |       |       |       |   | ft                                 |       |        |       |       | 1,000 lb          |       |       |       |   |
| 45.9                                   | 310.9  | 346.1  | -     | -     | -                 | -     | -     | -     | - | 55.8                               | 246.9 | 264.6  | -     | -     | -                 | -     | -     | -     | - |
| 52.5                                   | 280.0  | 337.3  | -     | -     | -                 | -     | -     | -     | - | 59.1                               | 235.9 | 260.1  | -     | -     | -                 | -     | -     | -     | - |
| 59.1                                   | 253.5  | 348.3* | -     | -     | -                 | -     | -     | -     | - | 65.6                               | 215.0 | 255.7  | -     | -     | -                 | -     | -     | -     | - |
| 65.6                                   | 231.5  | 339.5* | -     | -     | -                 | -     | -     | -     | - | 72.2                               | 198.4 | 262.4* | -     | -     | -                 | -     | -     | -     | - |
| 72.2                                   | 215.0  | 330.7* | -     | -     | -                 | 337.3 | -     | -     | - | 78.7                               | 183.0 | 257.9* | -     | -     | -                 | 255.7 | -     | -     | - |
| 78.7                                   | 198.4  | 319.7* | -     | -     | -                 | 335.1 | 445.3 | 474.0 | - | 85.3                               | 170.9 | 251.3* | -     | -     | -                 | 253.5 | 343.9 | 363.8 | - |
| 85.3                                   | 185.2  | 310.9* | -     | -     | -                 | 332.9 | 438.7 | 471.8 | - | 91.9                               | 158.7 | 246.9* | -     | -     | -                 | 253.5 | 343.9 | 363.8 | - |
| 91.9                                   | 173.1  | 299.8* | -     | -     | -                 | 330.7 | 438.7 | 471.8 | - | 98.4                               | 148.8 | 240.3* | -     | -     | -                 | 253.5 | 343.9 | 361.6 | - |
| 98.4                                   | 163.1  | 288.8* | -     | -     | -                 | 328.5 | 434.3 | 467.4 | - | 111.5                              | 132.3 | 227.1* | -     | -     | -                 | 250.6 | 337.3 | 359.4 | - |
| 108.3                                  | 136.7* | 277.8* | -     | -     | -                 | 324.1 | 427.7 | 458.6 | - | 124.7                              | 117.9 | 213.8* | -     | -     | -                 | 246.9 | 332.9 | 354.9 | - |
| 111.5                                  | -      | -      | -     | -     | -                 | 322.6 | 427.7 | 458.6 | - | 137.8                              | 107.4 | 202.8* | -     | -     | -                 | 242.5 | 332.9 | 354.9 | - |
| 124.7                                  | -      | -      | 317.5 | -     | -                 | 315.3 | 420.3 | 442.4 | - | 141.1                              | 95.2* | 201.0* | 240.3 | -     | -                 | 241.0 | 327.0 | 350.5 | - |
| 137.8                                  | -      | -      | 302.0 | -     | -                 | 306.4 | 410.1 | 410.1 | - | 147.6                              | 90.8* | 197.3* | 235.9 | -     | -                 | 238.1 | 326.3 | 346.1 | - |
| 150.9                                  | -      | -      | 284.4 | -     | -                 | 297.6 | 368.9 | 367.4 | - | 150.9                              | -     | -      | 233.7 | -     | -                 | 236.6 | 326.3 | 343.9 | - |
| 160.8                                  | -      | -      | 269.0 | -     | -                 | 287.7 | 339.9 | 337.7 | - | 164.0                              | -     | -      | 224.9 | -     | -                 | 230.8 | 318.2 | 326.3 | - |
| 164.0                                  | -      | -      | -     | -     | -                 | 284.4 | 331.4 | 329.2 | - | 177.2                              | -     | -      | 215.0 | -     | -                 | 224.9 | 302.0 | 299.8 | - |
| 177.2                                  | -      | -      | -     | -     | -                 | 271.2 | 297.6 | 295.4 | - | 190.3                              | -     | -      | 202.8 | -     | -                 | 216.8 | 274.1 | 271.9 | - |
| 187.0                                  | -      | -      | -     | 251.3 | -                 | 251.3 | 276.7 | 274.5 | - | 196.9                              | -     | -      | 196.2 | -     | -                 | 212.7 | 260.1 | 257.9 | - |
| 190.3                                  | -      | -      | -     | 244.7 | -                 | 244.7 | 269.7 | 267.5 | - | 203.4                              | -     | -      | -     | -     | -                 | 208.7 | 248.4 | 246.5 | - |
| 203.4                                  | -      | -      | -     | 227.1 | -                 | 220.8 | 244.0 | 240.3 | - | 206.7                              | -     | -      | -     | 202.8 | -                 | 206.7 | 242.5 | 240.7 | - |
| 206.7                                  | -      | -      | -     | 222.7 | -                 | 215.5 | 238.1 | 235.1 | - | 216.5                              | -     | -      | -     | 199.5 | -                 | 200.6 | 224.9 | 222.7 | - |
| 216.5                                  | -      | -      | -     | -     | -                 | 199.5 | 222.7 | 219.4 | - | 229.7                              | -     | -      | -     | 189.6 | -                 | 184.5 | 206.5 | 204.3 | - |
| 229.7                                  | -      | -      | -     | -     | -                 | 181.9 | 203.6 | 201.0 | - | 242.8                              | -     | -      | -     | 178.6 | -                 | 169.0 | 189.2 | 187.0 | - |
| 242.8                                  | -      | -      | -     | -     | 166.4             | 165.7 | 185.9 | 183.7 | - | 246.1                              | -     | -      | -     | 176.4 | -                 | 165.3 | 185.2 | 183.0 | - |
| 252.6                                  | -      | -      | -     | -     | 158.7             | 154.7 | 173.8 | 171.6 | - | 255.9                              | -     | -      | -     | -     | -                 | 154.3 | 173.1 | 170.9 | - |
| 255.9                                  | -      | -      | -     | -     | -                 | 151.0 | 169.8 | 167.6 | - | 269.0                              | -     | -      | -     | -     | 141.1             | 141.5 | 159.1 | 156.9 | - |
| 269.0                                  | -      | -      | -     | -     | -                 | 138.5 | 155.8 | 153.6 | - | 282.2                              | -     | -      | -     | -     | 133.4             | 129.7 | 146.2 | 143.3 | - |
| 282.2                                  | -      | -      | -     | -     | -                 | 126.4 | 143.5 | 140.0 | - | 292.0                              | -     | -      | -     | -     | 127.9             | 120.9 | 137.4 | 134.2 | - |
| 295.3                                  | -      | -      | -     | -     | -                 | 114.6 | 131.2 | 126.8 | - | 295.3                              | -     | -      | -     | -     | -                 | 117.9 | 134.5 | 131.2 | - |
| 308.4                                  | -      | -      | -     | -     | -                 | 105.2 | 116.9 | 113.7 | - | 308.4                              | -     | -      | -     | -     | -                 | 108.0 | 122.7 | 119.4 | - |
| 321.5                                  | -      | -      | -     | -     | -                 | 93.3  | 101.9 | 99.2  | - | 321.5                              | -     | -      | -     | -     | -                 | 98.5  | 111.7 | 108.2 | - |
| 334.6                                  | -      | -      | -     | -     | -                 | 78.7  | 86.0  | 83.3  | - | 334.6                              | -     | -      | -     | -     | -                 | 89.5  | 101.4 | 97.7  | - |
| 337.9                                  | -      | -      | -     | -     | -                 | 75.2  | 82.2  | 79.4  | - | 347.8                              | -     | -      | -     | -     | -                 | 80.4  | 89.8  | 87.0  | - |
|                                        |        |        |       |       |                   |       |       |       |   | 360.9                              | -     | -      | -     | -     | -                 | 69.7  | 76.9  | 74.5  | - |
|                                        |        |        |       |       |                   |       |       |       |   | 374.0                              | -     | -      | -     | -     | -                 | 57.5  | 63.7  | 61.3  | - |
|                                        |        |        |       |       |                   |       |       |       |   | 377.3                              | -     | -      | -     | -     | -                 | 55.3  | 60.8  | 58.0  | - |

SWSL\_1: 36.1 ft – 62.3 ft

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4: 496,100 lb + 110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  363,800 lb +  110,200 lb  36.1-68.9 ft                                                                                                                                                                                                                                         |       |        |       |       |   |   |   |   |   |  27.6 ft  32.2 ft/s 360° ASME B30.5                                                                                                                                                                                                                                                                                                                                  |       |        |       |       |      |   |   |   |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|-------|---|---|---|---|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|-------|------|---|---|---|---|
|  295.3 ft +  157.5 ft                                                                                                                                                                                                                                                                                                                                            |       |        |       |       |   |   |   |   |   |  295.3 ft +  196.9 ft                                                                                                                                                                                                                                                                                                                                                 |       |        |       |       |      |   |   |   |   |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4<br> 0 lb   0 lb - 716,600 lb<br> 87°/85° 87°/85° 75° 65° 55°  15°  15°  15° |       |        |       |       |   |   |   |   |   | SWSL_1   SFSL_1   SFSL_3   SFSL_4<br> 0 lb   0 lb - 716,600 lb<br> 87°/85° 87°/85° 75° 65° 55°  15°  15°  15° |       |        |       |       |      |   |   |   |   |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |        |       |       |   |   |   |   |   | ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |        |       |       |      |   |   |   |   |
| 1,000 lb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |        |       |       |   |   |   |   |   | 1,000 lb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |        |       |       |      |   |   |   |   |
| 62.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 198.4 | 203.9  | -     | -     | - | - | - | - | - | 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 152.1 | 155.4  | -     | -     | -    | - | - | - | - |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 196.2 | 202.8  | -     | -     | - | - | - | - | - | 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 149.9 | 153.2  | -     | -     | -    | - | - | - | - |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 183.0 | 199.5  | -     | -     | - | - | - | - | - | 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 144.4 | 152.1  | -     | -     | -    | - | - | - | - |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 168.7 | 203.9* | -     | -     | - | - | - | - | - | 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 134.5 | 154.3* | -     | -     | -    | - | - | - | - |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 156.5 | 200.6* | -     | -     | - | - | - | - | - | 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 125.7 | 152.1* | -     | -     | -    | - | - | - | - |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 146.6 | 198.4* | -     | -     | - | - | - | - | - | 105.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 117.9 | 149.9* | -     | -     | -    | - | - | - | - |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 136.7 | 194.0* | -     | -     | - | - | - | - | - | 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 110.2 | 147.7* | -     | -     | -    | - | - | - | - |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 120.2 | 186.3* | -     | -     | - | - | - | - | - | 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 97.9  | 143.3* | -     | -     | -    | - | - | - | - |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 107.4 | 178.6* | -     | -     | - | - | - | - | - | 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 87.3  | 137.8* | -     | -     | -    | - | - | - | - |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 96.1  | 169.8* | -     | -     | - | - | - | - | - | 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 78.3  | 132.3* | -     | -     | -    | - | - | - | - |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 86.9  | 162.0* | -     | -     | - | - | - | - | - | 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 70.5  | 127.9* | -     | -     | -    | - | - | - | - |
| 154.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 84.9  | 160.1* | 184.1 | -     | - | - | - | - | - | 173.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 65.4  | 123.7* | 137.8 | -     | -    | - | - | - | - |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 78.9  | 154.3* | 183.0 | -     | - | - | - | - | - | 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 63.7  | 122.4* | 137.8 | -     | -    | - | - | - | - |
| 173.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 73.9  | 149.4* | 179.7 | -     | - | - | - | - | - | 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 57.8  | 116.8* | 136.7 | -     | -    | - | - | - | - |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 64.2* | 147.7* | 178.6 | -     | - | - | - | - | - | 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 52.7  | 112.4* | 133.4 | -     | -    | - | - | - | - |
| 183.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 61.5* | 145.5* | 175.8 | -     | - | - | - | - | - | 213.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 49.4  | 109.1* | 131.2 | -     | -    | - | - | - | - |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | 173.1 | -     | - | - | - | - | - | 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 41.4* | 108.0* | 130.1 | -     | -    | - | - | - | - |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | 166.4 | -     | - | - | - | - | - | 223.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 39.5* | 106.3* | 127.9 | -     | -    | - | - | - | - |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | 159.8 | -     | - | - | - | - | - | 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | 125.7 | -     | -    | - | - | - | - |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | 152.1 | 151.0 | - | - | - | - | - | 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | 121.3 | -     | -    | - | - | - | - |
| 236.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | 148.8 | 149.9 | - | - | - | - | - | 252.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | 117.9 | 114.6 | -    | - | - | - | - |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -     | 148.8 | - | - | - | - | - | 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | 116.8 | 114.6 | -    | - | - | - | - |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -     | 144.4 | - | - | - | - | - | 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | 111.3 | 114.6 | -    | - | - | - | - |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -     | 137.8 | - | - | - | - | - | 272.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | 109.8 | 113.8 | -    | - | - | - | - |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -     | 131.2 | - | - | - | - | - | 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | 111.3 | -    | - | - | - | - |
| 285.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -     | 129.0 | - | - | - | - | - | 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | 108.7 | -    | - | - | - | - |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -     | -     | - | - | - | - | - | 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | 104.1 | -    | - | - | - | - |
| 298.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -     | -     | - | - | - | - | - | 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | 98.8  | -    | - | - | - | - |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -     | -     | - | - | - | - | - | 324.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | 91.7 | - | - | - | - |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -     | -     | - | - | - | - | - | 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | 91.5 | - | - | - | - |
| 328.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -     | -     | - | - | - | - | - | 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | 89.1 | - | - | - | - |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -     | -     | - | - | - | - | - | 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | 84.7 | - | - | - | - |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -     | -     | - | - | - | - | - | 367.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | 82.5 | - | - | - | - |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -     | -     | - | - | - | - | - | 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | -    | - | - | - | - |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -     | -     | - | - | - | - | - | 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | -    | - | - | - | - |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -     | -     | - | - | - | - | - | 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | -    | - | - | - | - |
| 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -     | -     | - | - | - | - | - | 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | -    | - | - | - | - |
| 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -     | -     | - | - | - | - | - | 426.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | -    | - | - | - | - |
| 416.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -      | -     | -     | - | - | - | - | - | 439.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | -    | - | - | - | - |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |        |       |       |   |   |   |   |   | 452.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -      | -     | -     | -    | - | - | - | - |

|                                                                                     |      |            |            |            |            |            |            |            |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|------------|
|  | 0 lb | 143,300 lb | 275,600 lb | 363,800 lb | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|------------|

SWSL\_1:  36.1 ft – 62.3 ft

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4:  36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4:  496,100 lb +  110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

| 363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s 360° ASME B30.5 |       |        |       |      |      |       |       |       |   |
|----------------------------------------------------------------------------|-------|--------|-------|------|------|-------|-------|-------|---|
| 295.3 ft +  236.2 ft                                                       |       |        |       |      |      |       |       |       |   |
| 295.3 ft +  275.6 ft                                                       |       |        |       |      |      |       |       |       |   |
| 0 lb  0 lb - 716,600 lb                                                    |       |        |       |      |      |       |       |       |   |
| 87°/85°  87°/85° 75° 65° 55°  15°  15°  15°                                |       |        |       |      |      |       |       |       |   |
| ft 1,000 lb                                                                |       |        |       |      |      |       |       |       |   |
| 82.0                                                                       | 115.7 | 119.0  | -     | -    | -    | -     | -     | -     | - |
| 85.3                                                                       | 115.7 | 119.0  | -     | -    | -    | -     | -     | -     | - |
| 91.9                                                                       | 114.6 | 116.8  | -     | -    | -    | -     | -     | -     | - |
| 98.4                                                                       | 112.4 | 117.9* | -     | -    | -    | -     | -     | -     | - |
| 111.5                                                                      | 101.0 | 116.8* | -     | -    | -    | -     | -     | -     | - |
| 118.1                                                                      | 94.9  | 115.2* | -     | -    | -    | 113.5 | 154.3 | 160.9 | - |
| 124.7                                                                      | 88.8  | 113.5* | -     | -    | -    | 113.5 | 154.3 | 160.9 | - |
| 137.8                                                                      | 78.5  | 110.2* | -     | -    | -    | 113.5 | 154.3 | 160.9 | - |
| 150.9                                                                      | 69.9  | 107.8* | -     | -    | -    | 112.1 | 153.6 | 159.5 | - |
| 164.0                                                                      | 62.4  | 104.3* | -     | -    | -    | 110.5 | 152.1 | 157.6 | - |
| 177.2                                                                      | 55.8  | 100.8* | -     | -    | -    | 108.9 | 149.9 | 155.4 | - |
| 190.3                                                                      | 50.0  | 97.0*  | 103.4 | -    | -    | 107.1 | 148.4 | 153.2 | - |
| 203.4                                                                      | 45.0  | 93.3*  | 103.4 | -    | -    | 104.9 | 146.2 | 151.0 | - |
| 216.5                                                                      | 40.6  | 89.7*  | 103.2 | -    | -    | 102.5 | 143.3 | 148.8 | - |
| 229.7                                                                      | 36.4  | 86.4*  | 101.6 | -    | -    | 100.0 | 140.7 | 145.5 | - |
| 242.8                                                                      | 32.8  | 83.1*  | 99.2  | -    | -    | 97.4  | 137.4 | 141.5 | - |
| 249.3                                                                      | 31.3  | 81.7*  | 98.1  | -    | -    | 96.0  | 136.0 | 139.6 | - |
| 255.9                                                                      | 23.8* | 80.2*  | 97.0  | -    | -    | 94.6  | 134.5 | 137.8 | - |
| 259.2                                                                      | 23.1* | 79.6*  | 96.3  | -    | -    | 93.9  | 133.6 | 136.9 | - |
| 269.0                                                                      | -     | -      | 94.1  | -    | -    | 91.8  | 130.8 | 134.1 | - |
| 275.6                                                                      | -     | -      | 92.5  | 84.4 | -    | 90.4  | 129.0 | 132.3 | - |
| 282.2                                                                      | -     | -      | 90.8  | 84.4 | -    | 88.9  | 127.2 | 130.1 | - |
| 295.3                                                                      | -     | -      | 87.5  | 84.4 | -    | 86.0  | 123.5 | 125.7 | - |
| 308.4                                                                      | -     | -      | 84.0  | 84.4 | -    | 83.0  | 117.6 | 117.6 | - |
| 311.7                                                                      | -     | -      | 82.9  | 84.0 | -    | 82.3  | 116.1 | 115.6 | - |
| 321.5                                                                      | -     | -      | -     | 82.9 | -    | 79.9  | 109.9 | 108.4 | - |
| 334.6                                                                      | -     | -      | -     | 80.9 | -    | 76.9  | 100.3 | 98.1  | - |
| 347.8                                                                      | -     | -      | -     | 78.0 | -    | 72.9  | 91.8  | 89.5  | - |
| 354.3                                                                      | -     | -      | -     | 76.2 | 67.0 | 71.2  | 87.7  | 85.5  | - |
| 360.9                                                                      | -     | -      | -     | 74.3 | 67.0 | 69.4  | 83.9  | 81.6  | - |
| 374.0                                                                      | -     | -      | -     | -    | 66.4 | 65.9  | 76.3  | 73.9  | - |
| 387.1                                                                      | -     | -      | -     | -    | 65.5 | 62.4  | 69.0  | 66.4  | - |
| 400.3                                                                      | -     | -      | -     | -    | 62.8 | 57.8  | 62.1  | 59.5  | - |
| 403.5                                                                      | -     | -      | -     | -    | 61.9 | 56.4  | 60.4  | 57.8  | - |
| 413.4                                                                      | -     | -      | -     | -    | -    | 52.2  | 55.3  | 52.7  | - |
| 426.5                                                                      | -     | -      | -     | -    | -    | 46.7  | 48.9  | 46.3  | - |
| 439.6                                                                      | -     | -      | -     | -    | -    | 40.6  | 43.0  | 40.3  | - |
| 452.8                                                                      | -     | -      | -     | -    | -    | 33.7  | 37.3  | 34.6  | - |
| 465.9                                                                      | -     | -      | -     | -    | -    | 26.1  | 31.5  | 28.8  | - |
| 479.0                                                                      | -     | -      | -     | -    | -    | 19.4  | 23.7  | 21.8  | - |
| 492.1                                                                      | -     | -      | -     | -    | -    | 13.9  | 15.2  | 13.2  | - |

|  |            |            |            |            |
|--|------------|------------|------------|------------|
|  | 0 lb       | 143,300 lb | 275,600 lb | 363,800 lb |
|  | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb |

SWSL\_1: 36.1 ft – 62.3 ft

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4: 496,100 lb + 110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  363,800 lb +  110,200 lb  36.1-68.9 ft                                                                                                                                                                                                                                                                                                                           |      |       |      |      |      |      |      |      |   |  27.6 ft  32.2 ft/s 360° ASME B30.5                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|------|------|------|------|------|------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  295.3 ft +  315.0 ft                                                                                                                                                                                                                                                                                                                                                                                                                              |      |       |      |      |      |      |      |      |   |  315.0 ft +  78.7 ft                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4<br> 0 lb    0 lb - 716,600 lb<br> 87°/85° 87°/85° 75° 65° 55°  15°  15°  15° |      |       |      |      |      |      |      |      |   | SWSL_1   SFSL_1   SFSL_3   SFSL_4<br> 0 lb    0 lb - 716,600 lb<br> 87°/85° 87°/85° 75° 65° 55°  15°  15°  15° |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |       |      |      |      |      |      |      |   | ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 1,000 lb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |      |      |      |      |      |      |   | 1,000 lb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 63.9 | 66.1  | -    | -    | -    | -    | -    | -    | - | 45.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 63.1 | 65.0  | -    | -    | -    | -    | -    | -    | - | 49.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 62.2 | 64.4* | -    | -    | -    | -    | -    | -    | - | 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 60.0 | 63.5* | -    | -    | -    | -    | -    | -    | - | 266.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 147.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 55.0 | 62.5* | -    | -    | -    | 62.2 | 83.8 | -    | - | 242.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 53.4 | 62.2* | -    | -    | -    | 61.9 | 83.6 | -    | - | 308.6*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 154.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 51.6 | 61.8* | -    | -    | -    | 61.7 | 83.5 | 86.6 | - | 304.2*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 46.3 | 60.8* | -    | -    | -    | 61.2 | 83.1 | 86.3 | - | 297.6*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 40.3 | 59.5* | -    | -    | -    | 60.6 | 82.7 | 85.8 | - | 299.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 35.1 | 58.0* | -    | -    | -    | 59.5 | 81.5 | 84.4 | - | 297.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 30.2 | 56.2* | -    | -    | -    | 58.2 | 80.2 | 82.9 | - | 410.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 26.0 | 54.7* | -    | -    | -    | 56.9 | 78.7 | 81.1 | - | 407.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 223.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 24.0 | 53.8* | 51.8 | -    | -    | 56.2 | 78.1 | 80.2 | - | 436.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 22.0 | 52.9* | 51.8 | -    | -    | 55.6 | 77.3 | 79.4 | - | 410.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 18.5 | 51.1* | 51.8 | -    | -    | 54.2 | 75.8 | 77.5 | - | 436.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 15.4 | 49.4* | 51.8 | -    | -    | 52.7 | 73.9 | 75.6 | - | 405.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12.6 | 47.6* | 51.8 | -    | -    | 51.1 | 72.1 | 73.7 | - | 434.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9.9  | 45.9* | 51.6 | -    | -    | 49.5 | 70.3 | 71.8 | - | 291.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 285.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9.3  | 45.4* | 51.4 | -    | -    | 49.1 | 69.8 | 71.3 | - | 285.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 44.1* | 50.9 | -    | -    | 47.8 | 68.3 | 69.9 | - | 396.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 42.5* | 50.3 | -    | -    | 46.3 | 66.6 | 68.0 | - | 389.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 318.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 41.4* | 49.8 | 38.1 | -    | 45.0 | 65.3 | 66.5 | - | 278.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 41.0* | 49.6 | 38.1 | -    | 44.6 | 64.8 | 66.1 | - | 280.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 324.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 40.6* | 49.3 | 38.1 | -    | 44.3 | 64.4 | 65.6 | - | 271.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 39.5* | 48.5 | 38.1 | -    | 43.0 | 63.1 | 64.2 | - | 255.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 337.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 39.2* | 48.2 | 38.1 | -    | 42.6 | 62.4 | 63.7 | - | 238.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | 47.2 | 38.1 | -    | 41.4 | 61.1 | 62.2 | - | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | 45.9 | 38.1 | -    | 39.8 | 59.3 | 60.4 | - | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | 44.3 | 38.1 | -    | 38.1 | 57.5 | 58.4 | - | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | 43.0 | 38.1 | -    | 36.4 | 55.3 | 55.7 | - | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | 38.1 | -    | 34.4 | 51.8 | 52.2 | - | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 410.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | 38.1 | 27.6 | 33.1 | 49.2 | 49.3 | - | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | 38.1 | 27.6 | 32.6 | 48.3 | 48.3 | - | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 426.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | 37.5 | 27.3 | 30.7 | 44.8 | 43.4 | - | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 436.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | 36.8 | 27.3 | 29.3 | 41.7 | 39.6 | - | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 439.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | -    | 27.3 | 28.7 | 40.3 | 38.3 | - | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 452.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | -    | 27.3 | 26.2 | 35.1 | 32.8 | - | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 465.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | -    | 27.3 | 24.4 | 30.0 | 27.9 | - | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 479.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | -    | 27.3 | 22.2 | 25.2 | 22.9 | - | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 482.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | -    | 26.9 | 21.6 | 24.0 | 21.7 | - | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 492.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | -    | -    | 19.8 | 20.5 | 18.1 | - | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 518.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | -    | -    | 9.3  | 11.8 | 9.3  | - | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 524.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | -     | -    | -    | -    | -    | 9.7  | -    | - | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1



| <div> 363,800 lb +  110,200 lb  36.1-68.9 ft</div>                                                                                                                                                                                                                                                         |       |        |       |       |       |       |       |       |   | <div> 27.6 ft  32.2 ft/s 360° ASME B30.5</div>                                                                                                                                                                                                                                                                                                                                                  |       |        |       |       |       |       |       |       |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|-------|-------|-------|-------|-------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|-------|-------|-------|-------|-------|---|
| <div> 315.0 ft +  118.1 ft</div>                                                                                                                                                                                                                                                                                                                                                            |       |        |       |       |       |       |       |       |   | <div> 315.0 ft +  157.5 ft</div>                                                                                                                                                                                                                                                                                                                                                                 |       |        |       |       |       |       |       |       |   |
| <div><div>SWSL_1</div><div>SFSL_1</div><div>SFSL_3</div><div>SFSL_4</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        |       |       |       |       |       |       |   | <div><div>SWSL_1</div><div>SFSL_1</div><div>SFSL_3</div><div>SFSL_4</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |        |       |       |       |       |       |       |   |
| <div><div> 0 lb</div><div>0 lb - 716,600 lb</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                      |       |        |       |       |       |       |       |       |   | <div><div> 0 lb</div><div>0 lb - 716,600 lb</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                            |       |        |       |       |       |       |       |       |   |
| <div><div> 87°/85°</div><div> 87°/85°</div><div>75°</div><div>65°</div><div>55°</div><div> 15°</div><div> 15°</div><div> 15°</div></div> |       |        |       |       |       |       |       |       |   | <div><div> 87°/85°</div><div> 87°/85°</div><div>75°</div><div>65°</div><div>55°</div><div> 15°</div><div> 15°</div><div> 15°</div></div> |       |        |       |       |       |       |       |       |   |
| ft1,000 lb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |        |       |       |       |       |       |       |   | ft1,000 lb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |        |       |       |       |       |       |       |   |
| 55.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 229.3 | 238.1  | -     | -     | -     | -     | -     | -     | - | 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 179.7 | 184.1  | -     | -     | -     | -     | -     | -     | - |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 224.9 | 235.9  | -     | -     | -     | -     | -     | -     | - | 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 174.2 | 180.8  | -     | -     | -     | -     | -     | -     | - |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 206.1 | 229.3  | -     | -     | -     | -     | -     | -     | - | 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 160.9 | 177.5  | -     | -     | -     | -     | -     | -     | - |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 189.6 | 235.9* | -     | -     | -     | -     | -     | -     | - | 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 149.9 | 181.9* | -     | -     | -     | -     | -     | -     | - |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 175.3 | 231.5* | -     | -     | -     | -     | -     | -     | - | 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 140.0 | 179.7* | -     | -     | -     | -     | -     | -     | - |
| 82.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 169.2 | 229.3* | -     | -     | -     | 227.1 | -     | -     | - | 95.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 135.0 | 178.0* | -     | -     | -     | 176.4 | -     | -     | - |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 163.1 | 227.1* | -     | -     | -     | 227.1 | -     | -     | - | 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 130.1 | 176.4* | -     | -     | -     | 175.3 | -     | -     | - |
| 88.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 157.6 | 223.8* | -     | -     | -     | 227.1 | 319.7 | 339.5 | - | 101.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 126.2 | 174.4* | -     | -     | -     | 175.1 | 249.1 | 264.6 | - |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 152.1 | 220.5* | -     | -     | -     | 227.1 | 319.7 | 339.5 | - | 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 114.6 | 168.7* | -     | -     | -     | 174.5 | 249.1 | 264.6 | - |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 143.3 | 216.1* | -     | -     | -     | 224.9 | 319.7 | 337.3 | - | 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 102.7 | 160.9* | -     | -     | -     | 172.7 | 246.9 | 262.4 | - |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 126.8 | 203.9* | -     | -     | -     | 221.9 | 315.3 | 335.1 | - | 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 91.9  | 153.2* | -     | -     | -     | 169.8 | 246.9 | 262.4 | - |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 113.5 | 192.9* | -     | -     | -     | 218.6 | 308.6 | 330.7 | - | 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 83.1  | 146.6* | -     | -     | -     | 166.8 | 244.7 | 257.9 | - |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 103.0 | 183.0* | -     | -     | -     | 215.0 | 308.6 | 330.7 | - | 160.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 77.3  | 141.6* | 164.2 | -     | -     | 164.4 | 241.4 | 255.0 | - |
| 144.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 88.0* | 179.3* | 212.7 | -     | -     | 212.0 | 305.0 | 324.1 | - | 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 75.4  | 140.0* | 163.1 | -     | -     | 163.5 | 240.3 | 254.3 | - |
| 147.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 85.8* | 177.5* | 211.6 | -     | -     | 210.5 | 304.2 | 321.9 | - | 173.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 70.3  | 135.0* | 160.9 | -     | -     | 160.8 | 240.3 | 252.1 | - |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 210.5 | -     | -     | 209.1 | 303.5 | 319.7 | - | 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 60.4* | 133.4* | 159.8 | -     | -     | 159.8 | 240.3 | 251.3 | - |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 201.7 | -     | -     | 203.2 | 296.2 | 306.4 | - | 187.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 56.2* | 130.1* | 155.7 | -     | -     | 156.5 | 235.9 | 246.9 | - |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 191.8 | -     | -     | 197.3 | 284.4 | 288.8 | - | 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | 154.3 | -     | -     | 155.4 | 235.2 | 245.4 | - |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 181.9 | -     | -     | 190.0 | 265.3 | 265.3 | - | 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | 148.8 | -     | -     | 150.6 | 228.4 | 234.6 | - |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 170.9 | -     | -     | 182.6 | 244.7 | 241.8 | - | 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | 142.2 | -     | -     | 145.5 | 218.3 | 218.3 | - |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | 175.3 | -     | 175.3 | 222.7 | 219.4 | - | 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | 135.6 | -     | -     | 140.4 | 202.8 | 201.4 | - |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | 167.6 | -     | 166.8 | 203.6 | 200.3 | - | 239.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | 130.1 | 130.1 | -     | 136.3 | 191.1 | 188.9 | - |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | 158.7 | -     | 159.5 | 185.9 | 182.6 | - | 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | -     | 130.1 | -     | 134.8 | 187.0 | 184.8 | - |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | 147.7 | -     | 152.1 | 169.8 | 166.4 | - | 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | -     | 125.7 | -     | 129.0 | 170.9 | 168.7 | - |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | -     | 138.9 | 155.8 | 152.3 | - | 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | -     | 120.2 | -     | 123.1 | 156.9 | 154.7 | - |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | 126.8 | 126.4 | 142.2 | 138.9 | - | 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | -     | 113.5 | -     | 117.2 | 143.3 | 140.0 | - |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | 119.0 | 114.6 | 129.0 | 125.7 | - | 292.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | -     | 108.9 | -     | 112.8 | 133.4 | 130.1 | - |
| 301.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | 115.7 | 109.7 | 123.1 | 120.0 | - | 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | -     | -     | -     | 111.3 | 130.1 | 126.8 | - |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | -     | 104.8 | 117.2 | 114.3 | - | 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | -     | -     | 100.5 | 104.6 | 119.0 | 115.7 | - |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | -     | 95.2  | 106.3 | 103.4 | - | 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | -     | -     | 96.6  | 96.5  | 108.6 | 105.4 | - |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | -     | 86.4  | 96.3  | 92.8  | - | 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | -     | -     | 91.3  | 87.5  | 98.8  | 95.7  | - |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | -     | 78.5  | 86.9  | 83.4  | - | 341.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | -     | -     | 88.4  | 83.5  | 93.9  | 91.0  | - |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | -     | 70.5  | 77.2  | 74.2  | - | 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | -     | -     | -     | 79.4  | 89.4  | 86.3  | - |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | -     | 60.2  | 67.2  | 63.7  | - | 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | -     | -     | -     | 71.7  | 80.6  | 77.4  | - |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | -     | 49.2  | 55.0  | 51.7  | - | 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | -     | -     | -     | 64.8  | 72.1  | 69.0  | - |
| 393.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -     | -     | 44.3  | 48.9  | 45.6  | - | 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | -     | -     | -     | 58.2  | 64.4  | 61.2  | - |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        |       |       |       |       |       |       |   | 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | -     | -     | -     | 50.3  | 55.8  | 53.1  | - |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        |       |       |       |       |       |       |   | 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | -     | -     | -     | 40.8  | 46.1  | 43.9  | - |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        |       |       |       |       |       |       |   | 426.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | -     | -     | -     | 31.6  | 35.6  | 33.6  | - |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        |       |       |       |       |       |       |   | 433.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -      | -     | -     | -     | 29.1  | 30.4  | 28.4  | - |



0 lb

143,300 lb

275,600 lb

363,800 lb

452,000 lb

540,200 lb

628,400 lb

716,600 lb

|  |            |            |            |            |
|--|------------|------------|------------|------------|
|  | 0 lb       | 143,300 lb | 275,600 lb | 363,800 lb |
|  | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb |

SWSL\_1: 36.1 ft – 62.3 ft

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4: 496,100 lb + 110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

| 363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s 360° ASME B30.5 |          |        |       |      |      |       |       |       |   |
|----------------------------------------------------------------------------|----------|--------|-------|------|------|-------|-------|-------|---|
| 315.0 ft +  196.9 ft                                                       |          |        |       |      |      |       |       |       |   |
| 315.0 ft +  236.2 ft                                                       |          |        |       |      |      |       |       |       |   |
| 0 lb  0 lb - 716,600 lb                                                    |          |        |       |      |      |       |       |       |   |
| 87°/85° 87°/85° 75° 65° 55°  15°  15°  15°                                 |          |        |       |      |      |       |       |       |   |
| ft                                                                         | 1,000 lb |        |       |      |      |       |       |       |   |
| 72.2                                                                       | 137.8    | 141.1  | -     | -    | -    | -     | -     | -     | - |
| 78.7                                                                       | 136.7    | 140.0  | -     | -    | -    | -     | -     | -     | - |
| 85.3                                                                       | 133.4    | 137.8  | -     | -    | -    | -     | -     | -     | - |
| 91.9                                                                       | 129.0    | 140.0* | -     | -    | -    | -     | -     | -     | - |
| 98.4                                                                       | 120.2    | 137.8* | -     | -    | -    | -     | -     | -     | - |
| 108.3                                                                      | 109.2    | 135.3* | -     | -    | -    | 134.5 | 192.9 | 201.7 | - |
| 111.5                                                                      | 105.6    | 134.5* | -     | -    | -    | 134.1 | 192.9 | 201.7 | - |
| 124.7                                                                      | 93.5     | 129.0* | -     | -    | -    | 133.0 | 192.9 | 201.7 | - |
| 137.8                                                                      | 83.3     | 124.6* | -     | -    | -    | 132.3 | 192.9 | 201.7 | - |
| 150.9                                                                      | 74.5     | 120.2* | -     | -    | -    | 129.3 | 190.7 | 199.5 | - |
| 164.0                                                                      | 67.0     | 114.6* | -     | -    | -    | 126.8 | 188.5 | 196.9 | - |
| 177.2                                                                      | 60.4     | 110.0* | 122.4 | -    | -    | 124.6 | 186.3 | 194.0 | - |
| 190.3                                                                      | 54.9     | 105.2* | 121.3 | -    | -    | 121.6 | 183.4 | 191.1 | - |
| 203.4                                                                      | 49.8     | 100.8* | 119.0 | -    | -    | 118.3 | 180.4 | 187.8 | - |
| 213.3                                                                      | 46.5     | 97.9*  | 116.6 | -    | -    | 115.6 | 178.2 | 185.0 | - |
| 216.5                                                                      | 38.1*    | 97.0*  | 115.7 | -    | -    | 114.6 | 177.5 | 184.1 | - |
| 223.1                                                                      | 36.4*    | 95.2*  | 113.5 | -    | -    | 113.0 | 174.8 | 181.1 | - |
| 229.7                                                                      | -        | -      | 111.3 | -    | -    | 111.4 | 171.7 | 178.2 | - |
| 242.8                                                                      | -        | -      | 107.6 | -    | -    | 107.8 | 165.3 | 170.9 | - |
| 255.9                                                                      | -        | -      | 103.0 | -    | -    | 103.8 | 158.7 | 162.0 | - |
| 259.2                                                                      | -        | -      | 101.7 | 99.2 | -    | 102.8 | 156.5 | 159.1 | - |
| 269.0                                                                      | -        | -      | 97.9  | 98.8 | -    | 99.9  | 149.9 | 150.3 | - |
| 278.9                                                                      | -        | -      | 93.9  | 97.1 | -    | 96.9  | 142.2 | 141.1 | - |
| 282.2                                                                      | -        | -      | -     | 96.6 | -    | 95.9  | 138.9 | 138.0 | - |
| 295.3                                                                      | -        | -      | -     | 93.3 | -    | 91.9  | 127.9 | 125.7 | - |
| 308.4                                                                      | -        | -      | -     | 89.1 | -    | 87.8  | 116.1 | 114.1 | - |
| 321.5                                                                      | -        | -      | -     | 84.7 | -    | 83.0  | 105.7 | 103.5 | - |
| 331.4                                                                      | -        | -      | -     | 80.7 | -    | 79.6  | 98.8  | 96.3  | - |
| 334.6                                                                      | -        | -      | -     | -    | -    | 78.3  | 96.6  | 93.9  | - |
| 337.9                                                                      | -        | -      | -     | -    | 75.0 | 77.1  | 94.4  | 91.7  | - |
| 347.8                                                                      | -        | -      | -     | -    | 73.4 | 73.6  | 88.0  | 85.2  | - |
| 360.9                                                                      | -        | -      | -     | -    | 70.1 | 68.9  | 79.7  | 76.9  | - |
| 374.0                                                                      | -        | -      | -     | -    | 66.4 | 64.2  | 71.7  | 68.8  | - |
| 377.3                                                                      | -        | -      | -     | -    | 65.3 | 62.9  | 69.8  | 66.9  | - |
| 387.1                                                                      | -        | -      | -     | -    | -    | 59.0  | 64.3  | 61.4  | - |
| 400.3                                                                      | -        | -      | -     | -    | -    | 53.4  | 57.2  | 54.2  | - |
| 413.4                                                                      | -        | -      | -     | -    | -    | 47.6  | 50.3  | 47.4  | - |
| 426.5                                                                      | -        | -      | -     | -    | -    | 40.6  | 43.9  | 41.1  | - |
| 439.6                                                                      | -        | -      | -     | -    | -    | 33.0  | 37.3  | 34.8  | - |
| 452.8                                                                      | -        | -      | -     | -    | -    | 24.9  | 29.8  | 27.8  | - |
| 465.9                                                                      | -        | -      | -     | -    | -    | 19.1  | 20.8  | 18.8  | - |
| 469.2                                                                      | -        | -      | -     | -    | -    | 18.1  | 18.5  | 16.5  | - |

| ft    | 1,000 lb |        |      |      |      |       |       |       |   |
|-------|----------|--------|------|------|------|-------|-------|-------|---|
| 82.0  | 105.8    | 108.9  | -    | -    | -    | -     | -     | -     | - |
| 85.3  | 105.4    | 108.2  | -    | -    | -    | -     | -     | -     | - |
| 91.9  | 104.3    | 106.9  | -    | -    | -    | -     | -     | -     | - |
| 98.4  | 103.4    | 105.4  | -    | -    | -    | -     | -     | -     | - |
| 111.5 | 95.9     | 105.8* | -    | -    | -    | -     | -     | -     | - |
| 121.4 | 87.1     | 103.8* | -    | -    | -    | 103.0 | 147.7 | 154.3 | - |
| 124.7 | 84.2     | 103.2* | -    | -    | -    | 102.7 | 147.5 | 154.1 | - |
| 137.8 | 74.5     | 100.3* | -    | -    | -    | 101.9 | 146.6 | 153.2 | - |
| 150.9 | 66.1     | 97.0*  | -    | -    | -    | 100.8 | 146.6 | 152.5 | - |
| 164.0 | 58.9     | 93.7*  | -    | -    | -    | 99.4  | 145.5 | 151.4 | - |
| 177.2 | 52.7     | 90.2*  | -    | -    | -    | 97.7  | 143.3 | 149.9 | - |
| 190.3 | 47.2     | 86.6*  | -    | -    | -    | 95.7  | 141.8 | 147.7 | - |
| 193.6 | 46.0     | 85.8*  | 92.4 | -    | -    | 95.2  | 141.5 | 147.2 | - |
| 203.4 | 42.3     | 83.3*  | 92.2 | -    | -    | 93.6  | 140.0 | 145.3 | - |
| 216.5 | 37.9     | 79.8*  | 91.1 | -    | -    | 91.3  | 137.8 | 142.2 | - |
| 229.7 | 34.0     | 76.7*  | 89.5 | -    | -    | 88.8  | 135.6 | 140.0 | - |
| 242.8 | 30.6     | 73.9*  | 87.5 | -    | -    | 86.1  | 131.9 | 137.1 | - |
| 252.6 | 28.2     | 71.7*  | 85.7 | -    | -    | 84.0  | 129.7 | 134.3 | - |
| 255.9 | 21.2*    | 71.0*  | 85.1 | -    | -    | 83.3  | 129.0 | 133.4 | - |
| 262.5 | 19.8*    | 69.9*  | 83.8 | -    | -    | 81.7  | 127.1 | 131.2 | - |
| 269.0 | -        | -      | 82.5 | -    | -    | 80.2  | 125.3 | 129.0 | - |
| 282.2 | -        | -      | 79.1 | 72.8 | -    | 77.2  | 122.4 | 124.6 | - |
| 295.3 | -        | -      | 76.1 | 72.8 | -    | 74.3  | 117.9 | 120.2 | - |
| 308.4 | -        | -      | 72.5 | 72.1 | -    | 71.2  | 112.1 | 112.1 | - |
| 318.2 | -        | -      | 69.7 | 70.6 | -    | 68.9  | 106.8 | 105.6 | - |
| 321.5 | -        | -      | -    | 70.1 | -    | 68.1  | 104.4 | 103.2 | - |
| 334.6 | -        | -      | -    | 67.9 | -    | 65.0  | 95.0  | 93.5  | - |
| 347.8 | -        | -      | -    | 64.8 | -    | 61.7  | 86.2  | 84.5  | - |
| 360.9 | -        | -      | -    | 61.7 | -    | 58.2  | 78.3  | 76.1  | - |
| 364.2 | -        | -      | -    | 60.8 | 54.0 | 57.3  | 76.4  | 74.2  | - |
| 367.5 | -        | -      | -    | 60.0 | 54.0 | 56.4  | 74.5  | 72.3  | - |
| 374.0 | -        | -      | -    | -    | 53.8 | 54.7  | 70.8  | 68.6  | - |
| 387.1 | -        | -      | -    | -    | 52.0 | 50.6  | 63.8  | 61.5  | - |
| 400.3 | -        | -      | -    | -    | 49.8 | 47.0  | 57.1  | 54.6  | - |
| 413.4 | -        | -      | -    | -    | 47.0 | 43.4  | 50.5  | 47.8  | - |
| 416.7 | -        | -      | -    | -    | 46.1 | 42.5  | 48.7  | 46.3  | - |
| 426.5 | -        | -      | -    | -    | -    | 39.6  | 44.2  | 41.7  | - |
| 439.6 | -        | -      | -    | -    | -    | 35.6  | 38.3  | 35.6  | - |
| 452.8 | -        | -      | -    | -    | -    | 31.5  | 32.6  | 30.0  | - |
| 465.9 | -        | -      | -    | -    | -    | 24.9  | 27.3  | 24.7  | - |
| 479.0 | -        | -      | -    | -    | -    | 18.1  | 22.2  | 19.4  | - |
| 492.1 | -        | -      | -    | -    | -    | 11.5  | 16.1  | 14.3  | - |
| 498.7 | -        | -      | -    | -    | -    | 9.7   | 12.1  | 10.4  | - |
| 502.0 | -        | -      | -    | -    | -    | -     | 10.1  | -     | - |

0 lb 
 143,300 lb 
 275,600 lb 
 363,800 lb 
 452,000 lb 
 540,200 lb 
 628,400 lb 
 716,600 lb

SWSL\_1: 36.1 ft – 62.3 ft

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4: 496,100 lb + 110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

| 363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s 360° ASME B30.5 |          |       |      |      |      |      |       |       |   |
|----------------------------------------------------------------------------|----------|-------|------|------|------|------|-------|-------|---|
| 315.0 ft +  275.6 ft                                                       |          |       |      |      |      |      |       |       |   |
| SWSL_1  SFSL_1  SFSL_3  SFSL_4                                             |          |       |      |      |      |      |       |       |   |
| 0 lb  0 lb - 716,600 lb                                                    |          |       |      |      |      |      |       |       |   |
| 87°/85°  87°/85° 75° 65° 55°  15°  15°  15°                                |          |       |      |      |      |      |       |       |   |
| ft                                                                         | 1,000 lb |       |      |      |      |      |       |       |   |
| 91.9                                                                       | 79.1     | 81.8  | -    | -    | -    | -    | -     | -     | - |
| 98.4                                                                       | 78.5     | 80.9  | -    | -    | -    | -    | -     | -     | - |
| 111.5                                                                      | 77.2     | 80.2* | -    | -    | -    | -    | -     | -     | - |
| 124.7                                                                      | 74.3     | 78.9* | -    | -    | -    | -    | -     | -     | - |
| 134.5                                                                      | 67.8     | 77.8* | -    | -    | -    | 76.9 | 111.3 | 115.7 | - |
| 137.8                                                                      | 65.7     | 77.4* | -    | -    | -    | 76.7 | 110.2 | 114.6 | - |
| 150.9                                                                      | 57.8     | 75.4* | -    | -    | -    | 76.1 | 110.2 | 114.6 | - |
| 164.0                                                                      | 50.9     | 73.2* | -    | -    | -    | 75.3 | 109.9 | 114.3 | - |
| 177.2                                                                      | 44.8     | 71.0* | -    | -    | -    | 74.1 | 109.3 | 113.5 | - |
| 190.3                                                                      | 39.5     | 68.6* | -    | -    | -    | 72.6 | 107.7 | 111.3 | - |
| 203.4                                                                      | 34.6     | 66.1* | -    | -    | -    | 71.1 | 106.1 | 109.5 | - |
| 210.0                                                                      | 32.5     | 64.9* | 66.6 | -    | -    | 70.4 | 105.3 | 108.8 | - |
| 216.5                                                                      | 30.4     | 63.7* | 66.6 | -    | -    | 69.7 | 104.5 | 108.0 | - |
| 229.7                                                                      | 26.7     | 61.3* | 66.6 | -    | -    | 67.8 | 102.6 | 106.0 | - |
| 242.8                                                                      | 23.1     | 58.9* | 66.4 | -    | -    | 65.8 | 100.6 | 103.8 | - |
| 255.9                                                                      | 20.1     | 56.7* | 65.3 | -    | -    | 63.9 | 98.5  | 101.6 | - |
| 269.0                                                                      | 17.2     | 54.5* | 63.9 | -    | -    | 61.8 | 96.6  | 99.3  | - |
| 282.2                                                                      | 14.8     | 52.2* | 62.4 | -    | -    | 59.5 | 94.1  | 97.1  | - |
| 288.7                                                                      | 13.7     | 51.4* | 61.6 | -    | -    | 58.4 | 93.1  | 95.9  | - |
| 295.3                                                                      | -        | 50.5* | 60.8 | -    | -    | 57.3 | 92.2  | 94.8  | - |
| 301.8                                                                      | -        | 49.4* | 59.7 | -    | -    | 56.2 | 91.1  | 93.6  | - |
| 305.1                                                                      | -        | -     | 59.2 | 50.7 | -    | 55.7 | 90.6  | 93.0  | - |
| 308.4                                                                      | -        | -     | 58.6 | 50.7 | -    | 55.1 | 90.1  | 92.4  | - |
| 321.5                                                                      | -        | -     | 56.7 | 50.7 | -    | 52.7 | 88.0  | 90.1  | - |
| 334.6                                                                      | -        | -     | 54.2 | 50.7 | -    | 50.5 | 86.0  | 87.7  | - |
| 347.8                                                                      | -        | -     | 51.8 | 50.3 | -    | 48.3 | 81.7  | 81.1  | - |
| 354.3                                                                      | -        | -     | 50.7 | 49.6 | -    | 47.2 | 79.1  | 77.8  | - |
| 360.9                                                                      | -        | -     | -    | 48.9 | -    | 45.9 | 75.5  | 73.9  | - |
| 374.0                                                                      | -        | -     | -    | 47.4 | -    | 43.4 | 68.1  | 66.4  | - |
| 387.1                                                                      | -        | -     | -    | 45.2 | -    | 40.6 | 61.5  | 59.6  | - |
| 393.7                                                                      | -        | -     | -    | 44.1 | 35.7 | 39.2 | 58.2  | 56.2  | - |
| 400.3                                                                      | -        | -     | -    | 43.0 | 35.7 | 37.9 | 55.1  | 53.1  | - |
| 406.8                                                                      | -        | -     | -    | 41.7 | 35.6 | 36.6 | 52.0  | 50.0  | - |
| 413.4                                                                      | -        | -     | -    | -    | 35.5 | 35.3 | 48.9  | 47.0  | - |
| 426.5                                                                      | -        | -     | -    | -    | 34.4 | 32.4 | 43.2  | 41.1  | - |
| 439.6                                                                      | -        | -     | -    | -    | 32.6 | 29.0 | 37.5  | 35.2  | - |
| 452.8                                                                      | -        | -     | -    | -    | 30.6 | 26.2 | 32.0  | 29.8  | - |
| 465.9                                                                      | -        | -     | -    | -    | -    | 19.0 | 26.8  | 24.5  | - |
| 479.0                                                                      | -        | -     | -    | -    | -    | 14.8 | 21.8  | 19.5  | - |
| 492.1                                                                      | -        | -     | -    | -    | -    | 10.8 | 17.0  | 14.6  | - |
| 498.7                                                                      | -        | -     | -    | -    | -    | 9.0  | 14.8  | 12.3  | - |
| 508.5                                                                      | -        | -     | -    | -    | -    | -    | 11.5  | 8.8   | - |
| 515.1                                                                      | -        | -     | -    | -    | -    | -    | 9.3   | -     | - |

| 315.0 ft +  315.0 ft                        |          |       |      |      |      |      |      |      |   |
|---------------------------------------------|----------|-------|------|------|------|------|------|------|---|
| SWSL_1  SFSL_1  SFSL_3  SFSL_4              |          |       |      |      |      |      |      |      |   |
| 0 lb  0 lb - 716,600 lb                     |          |       |      |      |      |      |      |      |   |
| 87°/85°  87°/85° 75° 65° 55°  15°  15°  15° |          |       |      |      |      |      |      |      |   |
| ft                                          | 1,000 lb |       |      |      |      |      |      |      |   |
| 98.4                                        | 57.1     | 59.5  | -    | -    | -    | -    | -    | -    | - |
| 111.5                                       | 56.2     | 58.2  | -    | -    | -    | -    | -    | -    | - |
| 124.7                                       | 55.3     | 57.5* | -    | -    | -    | -    | -    | -    | - |
| 137.8                                       | 53.8     | 56.7* | -    | -    | -    | -    | -    | -    | - |
| 147.6                                       | 50.5     | 55.7* | -    | -    | -    | 55.1 | -    | 83.6 | - |
| 150.9                                       | 49.6     | 55.3* | -    | -    | -    | 55.0 | -    | 83.4 | - |
| 154.2                                       | 48.0     | 55.0* | -    | -    | -    | 54.8 | 80.3 | 83.3 | - |
| 164.0                                       | 43.0     | 54.0* | -    | -    | -    | 54.3 | 80.2 | 82.7 | - |
| 177.2                                       | 37.3     | 52.5* | -    | -    | -    | 53.6 | 79.8 | 82.0 | - |
| 190.3                                       | 32.2     | 51.1* | -    | -    | -    | 52.7 | 78.9 | 81.0 | - |
| 203.4                                       | 27.6     | 49.4* | -    | -    | -    | 51.4 | 77.7 | 79.9 | - |
| 216.5                                       | 23.4     | 47.8* | -    | -    | -    | 50.0 | 76.3 | 78.7 | - |
| 226.4                                       | 20.6     | 46.5* | 45.2 | -    | -    | 49.2 | 75.2 | 77.7 | - |
| 229.7                                       | 19.6     | 46.1* | 45.2 | -    | -    | 48.9 | 74.9 | 77.4 | - |
| 242.8                                       | 16.3     | 44.3* | 45.2 | -    | -    | 47.5 | 73.4 | 75.8 | - |
| 255.9                                       | 13.2     | 42.5* | 45.2 | -    | -    | 45.9 | 71.7 | 74.1 | - |
| 269.0                                       | 10.6     | 40.8* | 45.2 | -    | -    | 44.4 | 70.1 | 72.3 | - |
| 275.6                                       | 9.3      | 39.9* | 45.0 | -    | -    | 43.7 | 69.2 | 71.4 | - |
| 282.2                                       | -        | 39.0* | 44.8 | -    | -    | 42.8 | 68.4 | 70.5 | - |
| 295.3                                       | -        | 37.5* | 43.9 | -    | -    | 41.2 | 66.8 | 68.8 | - |
| 308.4                                       | -        | 35.9* | 42.8 | -    | -    | 39.5 | 65.2 | 67.0 | - |
| 321.5                                       | -        | 34.4* | 41.7 | -    | -    | 37.7 | 63.6 | 65.3 | - |
| 328.1                                       | -        | 33.6* | 41.0 | 31.7 | -    | 36.8 | 62.8 | 64.4 | - |
| 334.6                                       | -        | 32.8* | 40.3 | 31.7 | -    | 35.9 | 61.9 | 63.5 | - |
| 337.9                                       | -        | 32.6* | 40.0 | 31.7 | -    | 35.5 | 61.5 | 63.1 | - |
| 347.8                                       | -        | -     | 38.8 | 31.7 | -    | 34.3 | 60.3 | 61.7 | - |
| 360.9                                       | -        | -     | 37.5 | 31.7 | -    | 32.6 | 58.8 | 58.1 | - |
| 374.0                                       | -        | -     | 35.9 | 31.7 | -    | 30.9 | 57.3 | 55.6 | - |
| 387.1                                       | -        | -     | 34.4 | 31.5 | -    | 29.1 | 55.4 | 53.4 | - |
| 393.7                                       | -        | -     | 33.5 | 31.4 | -    | 28.2 | 54.5 | 52.2 | - |
| 400.3                                       | -        | -     | -    | 31.3 | -    | 27.2 | 51.6 | 49.8 | - |
| 413.4                                       | -        | -     | -    | 30.0 | -    | 25.1 | 45.9 | 44.1 | - |
| 423.2                                       | -        | -     | -    | 29.0 | 20.1 | 23.6 | 41.8 | 39.9 | - |
| 426.5                                       | -        | -     | -    | 28.7 | 20.1 | 23.0 | 40.4 | 38.5 | - |
| 439.6                                       | -        | -     | -    | 26.9 | 19.8 | 20.8 | 35.1 | 33.1 | - |
| 442.9                                       | -        | -     | -    | 26.5 | 19.8 | 20.3 | 33.7 | 31.8 | - |
| 452.8                                       | -        | -     | -    | -    | 19.6 | 18.7 | 30.0 | 28.0 | - |
| 465.9                                       | -        | -     | -    | -    | 19.2 | 16.6 | 25.1 | 23.1 | - |
| 479.0                                       | -        | -     | -    | -    | 17.9 | 14.0 | 20.3 | 18.2 | - |
| 492.1                                       | -        | -     | -    | -    | 16.3 | 11.7 | 15.7 | 13.4 | - |
| 502.0                                       | -        | -     | -    | -    | -    | 9.5  | 12.3 | 10.1 | - |
| 505.3                                       | -        | -     | -    | -    | -    | -    | 11.2 | 9.0  | - |
| 511.8                                       | -        | -     | -    | -    | -    | -    | 9.0  | -    | - |

0 lb 
 143,300 lb 
 275,600 lb 
 363,800 lb 
 452,000 lb 
 540,200 lb 
 628,400 lb 
 716,600 lb

SWSL\_1: 36.1 ft – 62.3 ft

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4: 496,100 lb + 110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s 360° ASME B30.5                                                                                                                                                                                                                      |          |        |       |       |       |       |       |       |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|-------|-------|-------|-------|-------|-------|---|
|  334.6 ft +  118.1 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |        |       |       |       |       |       |       |   |
|  SWSL_1  SFSL_1  SFSL_3  SFSL_4                                                                                                                                                                                                                                                                                                                                                     |          |        |       |       |       |       |       |       |   |
|  0 lb  0 lb - 716,600 lb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |        |       |       |       |       |       |       |   |
|  87°/85°  87°/85°  75°  65°  55°  15°  15°  15° |          |        |       |       |       |       |       |       |   |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1,000 lb |        |       |       |       |       |       |       |   |
| 55.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 207.2    | 215.0  | -     | -     | -     | -     | -     | -     | - |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 207.2    | 212.7  | -     | -     | -     | -     | -     | -     | - |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 196.2    | 208.3  | -     | -     | -     | -     | -     | -     | - |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 180.8    | 213.8* | -     | -     | -     | -     | -     | -     | - |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 167.6    | 209.4* | -     | -     | -     | -     | -     | -     | - |
| 82.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 162.0    | 207.2* | -     | -     | -     | 205.0 | -     | -     | - |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 156.5    | 205.0* | -     | -     | -     | 203.9 | -     | -     | - |
| 88.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 151.6    | 202.3* | -     | -     | -     | 203.4 | 291.0 | 308.6 | - |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 146.6    | 199.5* | -     | -     | -     | 202.8 | 291.0 | 308.6 | - |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 136.7    | 195.1* | -     | -     | -     | 201.7 | 291.0 | 308.6 | - |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 121.3    | 184.1* | -     | -     | -     | 198.8 | 286.6 | 306.4 | - |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 108.9    | 174.2* | -     | -     | -     | 195.1 | 284.4 | 302.0 | - |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 98.8     | 165.3* | -     | -     | -     | 190.7 | 284.4 | 302.0 | - |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 79.4*    | 158.7* | 187.4 | -     | -     | 185.6 | 277.8 | 293.2 | - |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | 180.8 | -     | -     | 180.0 | 271.9 | 285.1 | - |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | 172.0 | -     | -     | 174.2 | 264.6 | 273.4 | - |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | 163.1 | -     | -     | 168.4 | 249.9 | 254.3 | - |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | 153.2 | -     | -     | 161.7 | 233.7 | 233.7 | - |
| 206.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | 151.0 | -     | -     | 159.8 | 229.3 | 229.0 | - |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -     | 154.3 | 216.1 | 215.0 | - |
| 226.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | 143.3 | -     | 148.8 | 202.8 | 201.2 | - |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | 142.2 | -     | 147.0 | 198.4 | 196.6 | - |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | 134.5 | -     | 139.8 | 181.1 | 178.9 | - |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | 125.7 | -     | 132.3 | 164.2 | 162.0 | - |
| 262.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | 120.2 | -     | 128.6 | 156.3 | 153.8 | - |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -     | 124.9 | 148.4 | 145.5 | - |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -     | 117.6 | 134.8 | 131.9 | - |
| 292.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | 106.9 | 112.1 | 125.5 | 123.1 | - |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | 105.4 | 110.2 | 122.4 | 120.2 | - |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | 98.3  | 100.8 | 111.6 | 108.7 | - |
| 315.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | 94.6  | 96.1  | 106.3 | 103.0 | - |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -     | 91.6  | 101.1 | 97.8  | - |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -     | 82.7  | 90.8  | 87.5  | - |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -     | 74.7  | 81.4  | 78.1  | - |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -     | 67.2  | 72.4  | 69.2  | - |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -     | 60.2  | 64.2  | 60.6  | - |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -     | 50.3  | 55.5  | 53.1  | - |
| 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -     | 40.4  | 45.5  | 43.4  | - |
| 410.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -     | 33.7  | 37.3  | 35.1  | - |

|  334.6 ft +  157.5 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |        |       |       |      |       |       |       |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|-------|-------|------|-------|-------|-------|---|
|  SWSL_1  SFSL_1  SFSL_3  SFSL_4                                                                                                                                                                                                                                                                                                                                                           |          |        |       |       |      |       |       |       |   |
|  0 lb  0 lb - 716,600 lb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |        |       |       |      |       |       |       |   |
|  87°/85°  87°/85°  75°  65°  55°  15°  15°  15° |          |        |       |       |      |       |       |       |   |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1,000 lb |        |       |       |      |       |       |       |   |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 163.1    | 166.4  | -     | -     | -    | -     | -     | -     | - |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 159.8    | 164.2  | -     | -     | -    | -     | -     | -     | - |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 154.3    | 160.9  | -     | -     | -    | -     | -     | -     | - |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 143.3    | 164.2* | -     | -     | -    | -     | -     | -     | - |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 133.4    | 162.0* | -     | -     | -    | -     | -     | -     | - |
| 95.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 129.0    | 160.4* | -     | -     | -    | 155.4 | -     | -     | - |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 124.6    | 158.7* | -     | -     | -    | 155.4 | -     | -     | - |
| 101.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 121.0    | 157.1* | -     | -     | -    | 155.1 | 224.9 | 238.1 | - |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 110.2    | 152.1* | -     | -     | -    | 154.0 | 227.1 | 240.3 | - |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 98.1     | 145.5* | -     | -     | -    | 151.8 | 226.3 | 238.1 | - |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 88.0     | 138.9* | -     | -     | -    | 148.8 | 224.9 | 238.1 | - |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 79.1     | 132.3* | -     | -     | -    | 145.9 | 222.7 | 234.4 | - |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 71.9     | 125.7* | -     | -     | -    | 142.6 | 220.1 | 232.2 | - |
| 167.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 70.3     | 124.3* | 141.1 | -     | -    | 141.6 | 219.9 | 231.5 | - |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 65.7     | 120.2* | 138.9 | -     | -    | 138.9 | 219.4 | 229.3 | - |
| 187.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 52.7*    | 117.9* | 135.6 | -     | -    | 135.6 | 216.6 | 224.9 | - |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | 134.5 | -     | -    | 134.5 | 215.7 | 224.1 | - |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | 127.9 | -     | -    | 129.7 | 211.1 | 219.7 | - |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | 122.4 | -     | -    | 124.6 | 203.9 | 207.2 | - |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | 115.7 | -     | -    | 119.4 | 190.7 | 191.8 | - |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | 109.8 | -     | -    | 114.2 | 177.1 | 176.7 | - |
| 246.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | 108.2 | 111.3 | -    | 112.9 | 173.6 | 173.1 | - |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | -     | 109.1 | -    | 108.9 | 163.1 | 162.0 | - |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | -     | 104.5 | -    | 103.6 | 149.9 | 147.7 | - |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | -     | 98.8  | -    | 98.3  | 136.7 | 134.5 | - |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | -     | 92.8  | -    | 92.8  | 123.5 | 121.3 | - |
| 301.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | -     | 89.5  | -    | 90.2  | 118.1 | 115.7 | - |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | -     | -     | -    | 87.5  | 112.7 | 110.1 | - |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | -     | -     | 80.5 | 81.5  | 102.4 | 99.4  | - |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | -     | -     | 76.1 | 75.8  | 92.6  | 89.7  | - |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | -     | -     | 71.2 | 70.3  | 83.6  | 80.6  | - |
| 351.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | -     | -     | 70.1 | 68.9  | 81.4  | 78.3  | - |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | -     | -     | -    | 64.7  | 74.8  | 71.9  | - |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | -     | -     | -    | 59.1  | 66.6  | 63.5  | - |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | -     | -     | -    | 53.2  | 58.9  | 55.9  | - |
| 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | -     | -     | -    | 47.0  | 51.6  | 48.6  | - |
| 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | -     | -     | -    | 40.6  | 44.8  | 41.7  | - |
| 426.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | -     | -     | -    | 32.0  | 37.1  | 35.3  | - |
| 439.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | -     | -     | -    | 23.5  | 28.4  | 26.2  | - |
| 449.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -        | -      | -     | -     | -    | 19.6  | 21.2  | 19.0  | - |

 0 lb    143,300 lb    275,600 lb    363,800 lb    452,000 lb    540,200 lb    628,400 lb    716,600 lb

SWSL\_1:  36.1 ft – 62.3 ft

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4:  36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4:  496,100 lb +  110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

| 363,800 lb +  110,200 lb          36.1-68.9 ft          27.6 ft          32.2 ft/s         360° ASME B30.5                                                                                                                                                                                                             |       |        |       |      |      |       |       |       |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|------|------|-------|-------|-------|---|
| 334.6 ft +  196.9 ft                                                                                                                                                                                                                                                                                                   |       |        |       |      |      |       |       |       |   |
| <div> <div>SWSL_1</div> <div>SFSL_1</div> <div>SFSL_3</div> <div>SFSL_4</div> </div> <div>  0 lb            0 lb - 716,600 lb         </div> <div>  87°/85°            87°/85°           75°           65°           55°            15°            15°            15°         </div> <div>ft</div> <div>1,000 lb</div> |       |        |       |      |      |       |       |       |   |
| 75.5                                                                                                                                                                                                                                                                                                                   | 124.6 | 127.9  | -     | -    | -    | -     | -     | -     | - |
| 78.7                                                                                                                                                                                                                                                                                                                   | 123.5 | 126.8  | -     | -    | -    | -     | -     | -     | - |
| 85.3                                                                                                                                                                                                                                                                                                                   | 121.3 | 124.6  | -     | -    | -    | -     | -     | -     | - |
| 91.9                                                                                                                                                                                                                                                                                                                   | 119.0 | 126.8* | -     | -    | -    | -     | -     | -     | - |
| 98.4                                                                                                                                                                                                                                                                                                                   | 114.6 | 124.6* | -     | -    | -    | -     | -     | -     | - |
| 108.3                                                                                                                                                                                                                                                                                                                  | 104.1 | 122.1* | -     | -    | -    | 120.2 | 176.4 | 185.2 | - |
| 111.5                                                                                                                                                                                                                                                                                                                  | 100.5 | 121.3* | -     | -    | -    | 119.8 | 176.4 | 184.8 | - |
| 124.7                                                                                                                                                                                                                                                                                                                  | 88.8  | 116.8* | -     | -    | -    | 118.7 | 176.0 | 184.1 | - |
| 137.8                                                                                                                                                                                                                                                                                                                  | 79.1  | 112.4* | -     | -    | -    | 117.9 | 175.3 | 184.1 | - |
| 150.9                                                                                                                                                                                                                                                                                                                  | 70.8  | 107.8* | -     | -    | -    | 115.7 | 173.8 | 181.9 | - |
| 164.0                                                                                                                                                                                                                                                                                                                  | 63.5  | 103.2* | -     | -    | -    | 113.2 | 172.0 | 179.7 | - |
| 177.2                                                                                                                                                                                                                                                                                                                  | 57.3  | 98.5*  | -     | -    | -    | 110.2 | 169.8 | 177.5 | - |
| 183.7                                                                                                                                                                                                                                                                                                                  | 54.6  | 96.3*  | 108.5 | -    | -    | 110.0 | 168.7 | 176.0 | - |
| 190.3                                                                                                                                                                                                                                                                                                                  | 51.8  | 94.1*  | 107.6 | -    | -    | 108.4 | 167.6 | 174.5 | - |
| 203.4                                                                                                                                                                                                                                                                                                                  | 47.2  | 90.2*  | 105.6 | -    | -    | 105.1 | 164.8 | 171.6 | - |
| 213.3                                                                                                                                                                                                                                                                                                                  | 43.9  | 87.5*  | 103.1 | -    | -    | 102.7 | 162.6 | 169.4 | - |
| 216.5                                                                                                                                                                                                                                                                                                                  | 35.1* | 86.6*  | 102.3 | -    | -    | 101.9 | 162.0 | 168.7 | - |
| 226.4                                                                                                                                                                                                                                                                                                                  | 32.4* | 84.2*  | 99.3  | -    | -    | 99.1  | 159.3 | 164.8 | - |
| 229.7                                                                                                                                                                                                                                                                                                                  | -     | -      | 98.3  | -    | -    | 98.2  | 158.4 | 163.9 | - |
| 242.8                                                                                                                                                                                                                                                                                                                  | -     | -      | 94.1  | -    | -    | 94.4  | 152.5 | 158.4 | - |
| 255.9                                                                                                                                                                                                                                                                                                                  | -     | -      | 89.9  | -    | -    | 90.4  | 146.6 | 151.0 | - |
| 269.0                                                                                                                                                                                                                                                                                                                  | -     | -      | 85.5  | 84.2 | -    | 86.2  | 140.4 | 141.1 | - |
| 282.2                                                                                                                                                                                                                                                                                                                  | -     | -      | 80.9  | 82.2 | -    | 82.2  | 131.2 | 130.1 | - |
| 295.3                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | 79.1 | -    | 78.0  | 120.2 | 119.0 | - |
| 308.4                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | 75.4 | -    | 73.9  | 109.9 | 108.2 | - |
| 321.5                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | 71.2 | -    | 69.9  | 99.5  | 97.3  | - |
| 334.6                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | 66.8 | -    | 65.5  | 89.9  | 87.5  | - |
| 337.9                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | 65.7 | -    | 64.4  | 87.9  | 85.4  | - |
| 347.8                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -    | 59.3 | 61.1  | 81.6  | 79.1  | - |
| 360.9                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -    | 56.7 | 56.7  | 73.4  | 71.0  | - |
| 374.0                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -    | 53.4 | 52.0  | 65.7  | 63.3  | - |
| 387.1                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -    | 49.6 | 47.5  | 58.5  | 55.9  | - |
| 390.4                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -    | 48.7 | 46.3  | 56.7  | 54.1  | - |
| 400.3                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -    | -    | 43.0  | 51.4  | 48.9  | - |
| 413.4                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -    | -    | 38.4  | 44.8  | 42.1  | - |
| 426.5                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -    | -    | 33.7  | 38.6  | 35.7  | - |
| 439.6                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -    | -    | 29.0  | 32.6  | 29.8  | - |
| 452.8                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -    | -    | 24.3  | 26.9  | 24.0  | - |
| 465.9                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -    | -    | 17.0  | 21.2  | 18.3  | - |
| 479.0                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -    | -    | 11.1  | 12.9  | 11.1  | - |
| 482.3                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -    | -    | 10.0  | 10.8  | 9.0   | - |
| 485.6                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | -    | -    | 8.8   | -     | -     | - |

| <div> <div>SWSL_1</div> <div>SFSL_1</div> <div>SFSL_3</div> <div>SFSL_4</div> </div> <div>  0 lb            0 lb - 716,600 lb         </div> <div>  87°/85°            87°/85°           75°           65°           55°            15°            15°            15°         </div> <div>ft</div> <div>1,000 lb</div> |       |       |      |      |      |      |       |       |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------|------|------|------|-------|-------|---|
| 82.0                                                                                                                                                                                                                                                                                                                   | 95.5  | 98.3  | -    | -    | -    | -    | -     | -     | - |
| 85.3                                                                                                                                                                                                                                                                                                                   | 94.8  | 97.9  | -    | -    | -    | -    | -     | -     | - |
| 91.9                                                                                                                                                                                                                                                                                                                   | 93.9  | 96.6  | -    | -    | -    | -    | -     | -     | - |
| 98.4                                                                                                                                                                                                                                                                                                                   | 92.8  | 95.2  | -    | -    | -    | -    | -     | -     | - |
| 111.5                                                                                                                                                                                                                                                                                                                  | 89.3  | 95.0* | -    | -    | -    | -    | -     | -     | - |
| 121.4                                                                                                                                                                                                                                                                                                                  | 82.1  | 93.2* | -    | -    | -    | 92.2 | 135.6 | 141.1 | - |
| 124.7                                                                                                                                                                                                                                                                                                                  | 79.8  | 92.6* | -    | -    | -    | 91.9 | 135.4 | 141.1 | - |
| 137.8                                                                                                                                                                                                                                                                                                                  | 70.5  | 89.7* | -    | -    | -    | 91.1 | 134.5 | 141.1 | - |
| 150.9                                                                                                                                                                                                                                                                                                                  | 62.6  | 86.6* | -    | -    | -    | 90.0 | 134.5 | 140.4 | - |
| 164.0                                                                                                                                                                                                                                                                                                                  | 55.6  | 83.6* | -    | -    | -    | 88.6 | 133.7 | 139.3 | - |
| 177.2                                                                                                                                                                                                                                                                                                                  | 49.6  | 80.2* | -    | -    | -    | 86.6 | 132.3 | 137.8 | - |
| 190.3                                                                                                                                                                                                                                                                                                                  | 44.3  | 76.9* | -    | -    | -    | 84.5 | 130.1 | 135.6 | - |
| 200.1                                                                                                                                                                                                                                                                                                                  | 40.7  | 74.5* | 80.9 | -    | -    | 83.0 | 128.6 | 134.1 | - |
| 203.4                                                                                                                                                                                                                                                                                                                  | 39.5  | 73.6* | 80.9 | -    | -    | 82.4 | 128.2 | 133.7 | - |
| 216.5                                                                                                                                                                                                                                                                                                                  | 35.3  | 70.5* | 80.0 | -    | -    | 80.0 | 125.7 | 131.2 | - |
| 229.7                                                                                                                                                                                                                                                                                                                  | 31.5  | 67.7* | 78.5 | -    | -    | 77.5 | 123.5 | 129.0 | - |
| 242.8                                                                                                                                                                                                                                                                                                                  | 28.2  | 64.8* | 76.5 | -    | -    | 75.0 | 121.3 | 126.4 | - |
| 252.6                                                                                                                                                                                                                                                                                                                  | 26.0  | 63.0* | 74.4 | -    | -    | 73.0 | 119.6 | 124.2 | - |
| 255.9                                                                                                                                                                                                                                                                                                                  | 18.3* | 62.4* | 73.6 | -    | -    | 72.3 | 119.0 | 123.5 | - |
| 262.5                                                                                                                                                                                                                                                                                                                  | 17.2* | 61.3* | 72.3 | -    | -    | 70.9 | 117.3 | 121.3 | - |
| 269.0                                                                                                                                                                                                                                                                                                                  | -     | -     | 71.0 | -    | -    | 69.3 | 115.5 | 119.0 | - |
| 282.2                                                                                                                                                                                                                                                                                                                  | -     | -     | 68.1 | -    | -    | 66.2 | 111.8 | 114.6 | - |
| 292.0                                                                                                                                                                                                                                                                                                                  | -     | -     | 65.8 | 61.1 | -    | 64.0 | 109.3 | 111.3 | - |
| 295.3                                                                                                                                                                                                                                                                                                                  | -     | -     | 65.0 | 61.1 | -    | 63.3 | 108.5 | 110.2 | - |
| 308.4                                                                                                                                                                                                                                                                                                                  | -     | -     | 61.9 | 60.0 | -    | 60.2 | 103.8 | 103.9 | - |
| 321.5                                                                                                                                                                                                                                                                                                                  | -     | -     | 58.6 | 58.6 | -    | 57.0 | 97.1  | 96.3  | - |
| 334.6                                                                                                                                                                                                                                                                                                                  | -     | -     | -    | 56.0 | -    | 54.0 | 88.6  | 87.3  | - |
| 347.8                                                                                                                                                                                                                                                                                                                  | -     | -     | -    | 53.1 | -    | 50.8 | 80.0  | 78.2  | - |
| 360.9                                                                                                                                                                                                                                                                                                                  | -     | -     | -    | 50.0 | -    | 47.4 | 71.8  | 69.6  | - |
| 374.0                                                                                                                                                                                                                                                                                                                  | -     | -     | -    | 47.0 | 40.8 | 43.7 | 64.6  | 62.4  | - |
| 377.3                                                                                                                                                                                                                                                                                                                  | -     | -     | -    | 46.1 | 40.8 | 42.8 | 62.9  | 60.7  | - |
| 387.1                                                                                                                                                                                                                                                                                                                  | -     | -     | -    | -    | 39.7 | 40.3 | 57.8  | 55.5  | - |
| 400.3                                                                                                                                                                                                                                                                                                                  | -     | -     | -    | -    | 37.5 | 36.8 | 51.1  | 48.8  | - |
| 413.4                                                                                                                                                                                                                                                                                                                  | -     | -     | -    | -    | 35.1 | 33.3 | 44.8  | 42.3  | - |
| 426.5                                                                                                                                                                                                                                                                                                                  | -     | -     | -    | -    | 32.4 | 29.5 | 38.7  | 36.2  | - |
| 439.6                                                                                                                                                                                                                                                                                                                  | -     | -     | -    | -    | -    | 25.6 | 32.8  | 30.4  | - |
| 452.8                                                                                                                                                                                                                                                                                                                  | -     | -     | -    | -    | -    | 21.6 | 27.1  | 24.7  | - |
| 465.9                                                                                                                                                                                                                                                                                                                  | -     | -     | -    | -    | -    | 17.8 | 21.8  | 19.4  | - |
| 479.0                                                                                                                                                                                                                                                                                                                  | -     | -     | -    | -    | -    | 13.9 | 16.8  | 14.3  | - |
| 492.1                                                                                                                                                                                                                                                                                                                  | -     | -     | -    | -    | -    | 9.9  | 11.9  | 9.5   | - |
| 498.7                                                                                                                                                                                                                                                                                                                  | -     | -     | -    | -    | -    | -    | 9.5   | -     | - |

0 lb
 143,300 lb
 275,600 lb
 363,800 lb
 452,000 lb
 540,200 lb
 628,400 lb
 716,600 lb

SWSL\_1: 36.1 ft – 62.3 ft

SWSL\_3 / SFSL\_3, SWSL\_4 / SFSL\_4: 36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4: 496,100 lb + 110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  363,800 lb +  110,200 lb  36.1-68.9 ft  27.6 ft  32.2 ft/s 360° ASME B30.5                                                                                                                                                                                                                                                                                              |          |       |      |      |      |      |       |       |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|------|------|------|------|-------|-------|---|
|  334.6 ft +  275.6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |       |      |      |      |      |       |       |   |
| <div> <div>SWSL_1</div> <div>SFSL_1</div> <div>SFSL_3</div> <div>SFSL_4</div> </div> <div>  0 lb  0 lb - 716,600 lb           </div> <div>  87°/85°  87°/85° 75° 65° 55°  15°  15°  15°           </div> |          |       |      |      |      |      |       |       |   |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1,000 lb |       |      |      |      |      |       |       |   |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 70.8     | 73.4  | -    | -    | -    | -    | -     | -     | - |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 70.1     | 72.5  | -    | -    | -    | -    | -     | -     | - |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 68.8     | 71.9* | -    | -    | -    | -    | -     | -     | - |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 66.8     | 70.5* | -    | -    | -    | -    | -     | -     | - |
| 134.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 62.8     | 69.2* | -    | -    | -    | 68.3 | 102.1 | 106.9 | - |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 61.7     | 68.8* | -    | -    | -    | 68.1 | 102.1 | 106.7 | - |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 54.2     | 67.0* | -    | -    | -    | 67.4 | 101.6 | 106.3 | - |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 47.4     | 64.8* | -    | -    | -    | 66.5 | 101.2 | 105.7 | - |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 41.7     | 62.6* | -    | -    | -    | 65.5 | 100.8 | 104.9 | - |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 36.6     | 60.2* | -    | -    | -    | 63.8 | 99.1  | 103.3 | - |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 32.0     | 58.0* | -    | -    | -    | 62.3 | 97.6  | 101.6 | - |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 28.0     | 55.8* | 58.0 | -    | -    | 60.8 | 96.1  | 100.1 | - |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 24.3     | 53.4* | 58.0 | -    | -    | 59.1 | 94.5  | 98.2  | - |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 20.9     | 50.9* | 57.1 | -    | -    | 57.2 | 92.7  | 96.2  | - |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 17.9     | 48.7* | 56.0 | -    | -    | 55.1 | 90.8  | 94.1  | - |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 15.2     | 46.7* | 54.7 | -    | -    | 53.1 | 89.1  | 92.1  | - |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12.8     | 44.8* | 52.9 | -    | -    | 50.9 | 86.7  | 89.8  | - |
| 292.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10.4     | 43.4* | 51.6 | -    | -    | 49.1 | 85.2  | 87.9  | - |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 43.0* | 51.1 | -    | -    | 48.5 | 84.7  | 87.3  | - |
| 301.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | 42.3* | 50.2 | -    | -    | 47.3 | 83.6  | 86.1  | - |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | 49.2 | -    | -    | 46.2 | 82.5  | 84.8  | - |
| 315.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | 48.2 | 41.4 | -    | 45.0 | 81.4  | 83.6  | - |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | 47.2 | 41.4 | -    | 43.8 | 80.3  | 82.2  | - |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | 45.0 | 41.2 | -    | 41.4 | 78.3  | 79.8  | - |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | 42.8 | 40.3 | -    | 39.0 | 74.3  | 73.2  | - |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | 40.3 | 38.6 | -    | 36.5 | 68.8  | 66.5  | - |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -    | 36.8 | -    | 34.2 | 61.9  | 59.7  | - |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -    | 34.8 | -    | 31.5 | 55.3  | 53.2  | - |
| 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -    | 32.6 | -    | 28.6 | 49.0  | 47.0  | - |
| 403.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -    | 32.1 | 25.1 | 27.9 | 47.5  | 45.4  | - |
| 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -    | 30.4 | 24.5 | 25.8 | 43.0  | 40.8  | - |
| 426.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -    | -    | 23.4 | 23.0 | 37.2  | 35.0  | - |
| 439.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -    | -    | 21.6 | 20.1 | 31.7  | 29.5  | - |
| 452.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -    | -    | 19.8 | 17.2 | 26.5  | 24.0  | - |
| 465.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -    | -    | 17.9 | 14.4 | 21.2  | 19.0  | - |
| 479.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -    | -    | -    | 11.1 | 16.4  | 14.1  | - |
| 485.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -    | -    | -    | 9.3  | 14.0  | -     | - |
| 492.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -    | -    | -    | -    | 11.7  | -     | - |
| 498.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -        | -     | -    | -    | -    | -    | 9.3   | -     | - |

|  354.3 ft +  118.1 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |        |       |       |      |       |       |       |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|-------|-------|------|-------|-------|-------|---|
| <div> <div>SWSL_1</div> <div>SFSL_1</div> <div>SFSL_3</div> <div>SFSL_4</div> </div> <div>  0 lb  0 lb - 716,600 lb           </div> <div>  87°/85°  87°/85° 75° 65° 55°  15°  15°  15°           </div> |          |        |       |       |      |       |       |       |   |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1,000 lb |        |       |       |      |       |       |       |   |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 186.3    | 190.7  | -     | -     | -    | -     | -     | -     | - |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 181.9    | 186.3  | -     | -     | -    | -     | -     | -     | - |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 173.1    | 183.0  | -     | -     | -    | -     | -     | -     | - |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 159.8    | 188.5* | -     | -     | -    | -     | -     | -     | - |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 148.8    | 184.1* | -     | -     | -    | -     | -     | -     | - |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 138.9    | 179.7* | -     | -     | -    | 181.9 | -     | 284.4 | - |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 131.2    | 175.3* | -     | -     | -    | 179.7 | 269.0 | 284.4 | - |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 115.7    | 166.4* | -     | -     | -    | 176.7 | 266.0 | 284.4 | - |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 104.1    | 156.5* | -     | -     | -    | 173.4 | 262.4 | 280.0 | - |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 94.1     | 148.8* | -     | -     | -    | 169.8 | 262.4 | 280.0 | - |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 74.3*    | 142.2* | -     | -     | -    | 164.6 | 257.9 | 273.4 | - |
| 154.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | 164.2 | -     | -    | 163.3 | 257.9 | 272.3 | - |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | 159.8 | -     | -    | 159.4 | 252.8 | 265.3 | - |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | 153.2 | -     | -    | 153.2 | 246.9 | 257.9 | - |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | 144.4 | -     | -    | 147.3 | 236.6 | 241.8 | - |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | 135.6 | -     | -    | 141.1 | 222.9 | 224.5 | - |
| 213.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | 129.0 | -     | -    | 136.1 | 210.3 | 210.7 | - |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -    | 134.5 | 206.1 | 206.1 | - |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -    | 127.1 | 190.0 | 188.5 | - |
| 232.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | 120.2 | -    | 125.3 | 185.9 | 184.1 | - |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | 115.7 | -    | 120.2 | 173.8 | 171.6 | - |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | 108.0 | -    | 113.5 | 157.6 | 155.4 | - |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | 100.1 | -    | 106.5 | 143.1 | 140.7 | - |
| 272.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | 97.9  | -    | 104.7 | 139.3 | 137.1 | - |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -    | 99.5  | 129.3 | 126.8 | - |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -    | 92.6  | 116.8 | 113.5 | - |
| 305.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | 82.7 | 87.5  | 108.9 | 105.8 | - |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | 81.1 | 85.8  | 106.3 | 103.2 | - |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | 75.0 | 79.1  | 95.9  | 92.8  | - |
| 324.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | 73.2 | 77.4  | 93.4  | 90.3  | - |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -    | 72.3  | 85.8  | 82.7  | - |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -    | 65.6  | 76.4  | 73.2  | - |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -    | 58.8  | 67.7  | 64.5  | - |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -    | 52.0  | 59.3  | 56.0  | - |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -    | 45.5  | 51.7  | 48.5  | - |
| 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -    | 38.6  | 43.8  | 41.1  | - |
| 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -    | 31.5  | 35.3  | 33.1  | - |
| 426.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -    | 23.7  | 25.1  | 23.0  | - |
| 429.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -        | -      | -     | -     | -    | 22.5  | 22.5  | 20.5  | - |

 0 lb 
  143,300 lb 
  275,600 lb 
  363,800 lb 
  452,000 lb 
  540,200 lb 
  628,400 lb 
  716,600 lb

SWSL\_1:  36.1 ft – 62.3 ft

SWSL\_3 / SFSL\_3, SWSL\_4 / SFSL\_4:  36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4:  496,100 lb +  110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1

|  363,800 lb +  110,200 lb  36.1-68.9 ft                                                                                                                                                                                                                                                                                                                                                                                                             |       |        |       |   |      |      |       |       |       |  27.6 ft  32.2 ft/s 360° ASME B30.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |        |      |      |   |       |       |       |   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|---|------|------|-------|-------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|------|------|---|-------|-------|-------|---|
|  354.3 ft +  157.5 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |        |       |   |      |      |       |       |       |  354.3 ft +  196.9 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |        |      |      |   |       |       |       |   |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4<br> 0 lb    0 lb - 716,600 lb<br> 87°/85°  87°/85° 75° 65° 55°  15°  15°  15° |       |        |       |   |      |      |       |       |       | SWSL_1   SFSL_1   SFSL_3   SFSL_4<br> 0 lb    0 lb - 716,600 lb<br> 87°/85°  87°/85° 75° 65° 55°  15°  15°  15° |       |        |      |      |   |       |       |       |   |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |        |       |   |      |      |       |       |       | ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |        |      |      |   |       |       |       |   |
| 1,000 lb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        |       |   |      |      |       |       |       | 1,000 lb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |        |      |      |   |       |       |       |   |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 143.3 | 147.7  | -     | - | -    | -    | -     | -     | -     | 75.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 111.3 | 114.6  | -    | -    | - | -     | -     | -     | - |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 142.2 | 145.5  | -     | - | -    | -    | -     | -     | -     | 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 110.2 | 113.5  | -    | -    | - | -     | -     | -     | - |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 138.9 | 142.2  | -     | - | -    | -    | -     | -     | -     | 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 109.3 | 111.3  | -    | -    | - | -     | -     | -     | - |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 134.5 | 145.5* | -     | - | -    | -    | -     | -     | -     | 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 107.6 | 110.2  | -    | -    | - | -     | -     | -     | - |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 126.8 | 142.2* | -     | - | -    | -    | -     | -     | -     | 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 105.2 | 111.3* | -    | -    | - | -     | -     | -     | - |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 119.0 | 140.0* | -     | - | -    | -    | 138.9 | 210.5 | 220.5 | 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 95.2  | 108.2* | -    | -    | - | 107.4 | 165.3 | 174.2 | - |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 105.2 | 134.5* | -     | - | -    | -    | 136.7 | 210.5 | 220.5 | 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 84.2  | 104.5* | -    | -    | - | 105.9 | 165.0 | 173.1 | - |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 93.3  | 127.9* | -     | - | -    | -    | 134.5 | 209.8 | 220.1 | 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 75.0  | 100.1* | -    | -    | - | 104.7 | 164.2 | 173.1 | - |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 83.6  | 122.4* | -     | - | -    | -    | 132.3 | 208.3 | 219.4 | 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 67.0  | 95.9*  | -    | -    | - | 102.4 | 162.8 | 171.6 | - |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 75.4  | 115.7* | -     | - | -    | -    | 128.6 | 205.8 | 216.4 | 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 60.0  | 91.5*  | -    | -    | - | 100.0 | 161.3 | 169.8 | - |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 68.1  | 110.2* | -     | - | -    | -    | 125.3 | 203.6 | 213.1 | 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 54.0  | 87.3*  | -    | -    | - | 97.7  | 159.8 | 167.6 | - |
| 170.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 65.1  | 108.0* | 123.5 | - | -    | -    | 123.8 | 202.1 | 211.3 | 187.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 50.0  | 84.3*  | 94.4 | -    | - | 95.6  | 158.2 | 165.3 | - |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 62.2  | 105.8* | 122.4 | - | -    | -    | 122.4 | 200.6 | 209.4 | 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 48.7  | 83.3*  | 93.9 | -    | - | 94.9  | 157.6 | 164.6 | - |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 47.4* | 101.6* | 117.9 | - | -    | -    | 117.2 | 194.7 | 203.6 | 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 44.1  | 79.8*  | 91.7 | -    | - | 91.8  | 154.5 | 161.4 | - |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | 112.4  | -     | - | -    | -    | 112.7 | 190.7 | 197.1 | 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 40.3  | 76.5*  | 88.8 | -    | - | 88.4  | 152.1 | 158.7 | - |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | 107.4  | -     | - | -    | -    | 108.7 | 186.3 | 191.8 | 226.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 29.1* | 74.5*  | 85.9 | -    | - | 85.9  | 149.9 | 155.4 | - |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | 101.6  | -     | - | -    | -    | 103.4 | 176.0 | 177.8 | 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 84.9 | -    | - | 85.0  | 149.2 | 154.7 | - |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | 95.7   | -     | - | -    | -    | 98.1  | 164.6 | 164.2 | 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 81.1 | -    | - | 81.2  | 144.0 | 149.9 | - |
| 249.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | 92.6   | -     | - | -    | -    | 95.5  | 158.4 | 157.6 | 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 76.9 | -    | - | 77.2  | 138.9 | 143.3 | - |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | 92.2  | - | -    | -    | 92.8  | 152.1 | 151.0 | 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 72.8 | -    | - | 72.9  | 131.7 | 131.4 | - |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | 88.0  | - | -    | -    | 87.7  | 139.4 | 137.8 | 278.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 69.8 | 68.3 | - | 69.7  | 125.5 | 123.1 | - |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | 82.9  | - | -    | -    | 82.5  | 127.5 | 124.9 | 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 68.8 | 67.9 | - | 68.7  | 123.1 | 120.5 | - |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | 77.6  | - | -    | -    | 77.2  | 115.7 | 112.4 | 288.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 66.8 | 66.5 | - | 66.7  | 118.3 | 115.4 | - |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | 72.1  | - | -    | -    | 71.9  | 104.4 | 101.1 | 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 65.0 | -    | - | 64.6  | 113.5 | 110.2 | - |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | - | -    | -    | 66.6  | 94.0  | 91.3  | 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 61.5 | -    | - | 60.5  | 103.7 | 100.4 | - |
| 331.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | - | -    | 61.3 | 62.6  | 87.2  | 84.3  | 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 57.8 | -    | - | 56.3  | 93.9  | 90.8  | - |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | - | 60.4 | 61.3 | 61.3  | 84.9  | 82.0  | 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 54.0 | -    | - | 52.0  | 84.0  | 81.6  | - |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | - | 56.2 | 56.1 | 56.1  | 76.2  | 73.3  | 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | 50.0 | -    | - | 47.8  | 75.7  | 73.0  | - |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | - | 51.8 | 51.0 | 51.0  | 67.9  | 65.0  | 357.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -    | 42.8 | - | 44.6  | 69.8  | 66.8  | - |
| 364.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | - | 50.7 | 49.8 | 49.8  | 65.9  | 63.1  | 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -    | 42.1 | - | 43.6  | 68.0  | 64.8  | - |
| 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | - | -    | 46.1 | 46.1  | 60.0  | 57.1  | 374.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -    | 39.2 | - | 39.5  | 60.6  | 56.9  | - |
| 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | - | -    | 40.5 | 40.5  | 52.5  | 49.6  | 387.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -    | 36.2 | - | 35.3  | 53.4  | 49.8  | - |
| 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | - | -    | 34.9 | 34.9  | 45.3  | 42.4  | 400.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -    | 33.1 | - | 31.3  | 46.5  | 43.1  | - |
| 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | - | -    | 29.8 | 29.8  | 38.6  | 35.7  | 413.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -    | -    | - | 27.1  | 39.9  | 36.6  | - |
| 426.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | - | -    | 24.5 | 24.5  | 32.4  | 29.4  | 426.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -    | -    | - | 23.0  | 33.5  | 30.9  | - |
| 439.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | - | -    | 19.6 | 19.6  | 25.9  | 23.4  | 439.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -    | -    | - | 19.0  | 27.5  | 14.7  | - |
| 452.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | - | -    | 15.0 | 15.0  | 19.2  | 17.2  | 452.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -    | -    | - | 14.8  | 21.6  | 9.3   | - |
| 462.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | - | -    | 11.7 | 11.7  | 12.6  | 10.6  | 465.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -    | -    | - | 10.7  | 16.0  | -     | - |
| 465.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -      | -     | - | -    | 10.6 | 10.6  | 10.4  | -     | 469.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -    | -    | - | 9.7   | 14.6  | -     | - |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |        |       |   |      |      |       |       |       | 479.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -    | -    | - | -     | 10.6  | -     | - |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |        |       |   |      |      |       |       |       | 482.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -    | -    | - | -     | 9.3   | -     | - |

 0 lb | 143,300 lb | 275,600 lb | 363,800 lb | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb

SWSL\_1:  36.1 ft – 62.3 ft

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4:  36.1 ft – 68.9 ft

SFSL\_3 + SFSL\_4:  496,100 lb +  110,200 lb

\* Main boom angle 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1



| 496,100 lb + 110,200 lb 36.1-68.9 ft                                                                                                       |      |          |       | 27.6 ft 32.2 ft/s 360° ASME B30.5                                                                                                          |      |          |       |
|--------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-------|--------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-------|
| 354.3 ft + 236.2 ft                                                                                                                        |      |          |       | 354.3 ft + 275.6 ft                                                                                                                        |      |          |       |
| <div> <div>SFSL_3</div> <div>SFSL_4</div> <div>0 lb</div> <div>0 lb - 716,600 lb</div> <div>15°</div> <div>15°</div> <div>15°</div> </div> |      |          |       | <div> <div>SFSL_3</div> <div>SFSL_4</div> <div>0 lb</div> <div>0 lb - 716,600 lb</div> <div>15°</div> <div>15°</div> <div>15°</div> </div> |      |          |       |
| ft                                                                                                                                         |      | 1,000 lb |       | ft                                                                                                                                         |      | 1,000 lb |       |
| 124.7                                                                                                                                      | 92.8 | 126.8    | 133.4 | 137.8                                                                                                                                      | 68.1 | 96.3     | 101.2 |
| 137.8                                                                                                                                      | 75.8 | 126.8    | 133.4 | 150.9                                                                                                                                      | 56.2 | 96.0     | 100.8 |
| 150.9                                                                                                                                      | 59.8 | 126.8    | 132.6 | 164.0                                                                                                                                      | 44.3 | 95.7     | 100.3 |
| 164.0                                                                                                                                      | 45.4 | 126.0    | 131.5 | 177.2                                                                                                                                      | 32.4 | 95.2     | 99.9  |
| 177.2                                                                                                                                      | 32.6 | 124.6    | 130.1 | 190.3                                                                                                                                      | 21.8 | 93.9     | 98.3  |
| 190.3                                                                                                                                      | 21.9 | 123.1    | 128.6 | 203.4                                                                                                                                      | 11.8 | 92.5     | 96.6  |
| 203.4                                                                                                                                      | 11.8 | 121.3    | 126.8 | 206.7                                                                                                                                      | 9.5  | 92.1     | 96.2  |
| 206.7                                                                                                                                      | 9.5  | 120.7    | 126.2 | 216.5                                                                                                                                      | -    | 91.1     | 95.0  |
| 216.5                                                                                                                                      | -    | 119.0    | 124.6 | 229.7                                                                                                                                      | -    | 89.6     | 93.4  |
| 229.7                                                                                                                                      | -    | 116.8    | 122.4 | 242.8                                                                                                                                      | -    | 88.0     | 91.6  |
| 242.8                                                                                                                                      | -    | 114.6    | 119.9 | 255.9                                                                                                                                      | -    | 86.2     | 89.7  |
| 255.9                                                                                                                                      | -    | 112.4    | 116.8 | 269.0                                                                                                                                      | -    | 84.4     | 87.8  |
| 269.0                                                                                                                                      | -    | 109.3    | 113.5 | 282.2                                                                                                                                      | -    | 82.2     | 85.4  |
| 282.2                                                                                                                                      | -    | 105.5    | 109.1 | 295.3                                                                                                                                      | -    | 79.8     | 82.9  |
| 295.3                                                                                                                                      | -    | 101.6    | 104.7 | 308.4                                                                                                                                      | -    | 77.3     | 79.9  |
| 308.4                                                                                                                                      | -    | 96.9     | 97.8  | 321.5                                                                                                                                      | -    | 74.8     | 77.0  |
| 321.5                                                                                                                                      | -    | 90.5     | 89.9  | 334.6                                                                                                                                      | -    | 72.3     | 74.1  |
| 334.6                                                                                                                                      | -    | 82.5     | 81.4  | 347.8                                                                                                                                      | -    | 69.4     | 69.0  |
| 347.8                                                                                                                                      | -    | 74.2     | 72.9  | 360.9                                                                                                                                      | -    | 62.8     | 61.9  |
| 360.9                                                                                                                                      | -    | 66.3     | 64.6  | 374.0                                                                                                                                      | -    | 56.2     | 54.9  |
| 374.0                                                                                                                                      | -    | 58.6     | 56.7  | 387.1                                                                                                                                      | -    | 49.5     | 48.0  |
| 387.1                                                                                                                                      | -    | 51.8     | 49.8  | 400.3                                                                                                                                      | -    | 43.1     | 41.4  |
| 400.3                                                                                                                                      | -    | 45.6     | 43.4  | 413.4                                                                                                                                      | -    | 37.3     | 35.5  |
| 413.4                                                                                                                                      | -    | 39.2     | 37.0  | 426.5                                                                                                                                      | -    | 31.8     | 29.9  |
| 426.5                                                                                                                                      | -    | 33.4     | 31.2  | 439.6                                                                                                                                      | -    | 26.5     | 24.4  |
| 439.6                                                                                                                                      | -    | 27.7     | 25.4  | 452.8                                                                                                                                      | -    | 21.2     | 19.2  |
| 452.8                                                                                                                                      | -    | 22.3     | 19.8  | 465.9                                                                                                                                      | -    | 16.2     | 14.0  |
| 465.9                                                                                                                                      | -    | 17.0     | 14.7  | 479.0                                                                                                                                      | -    | 11.4     | 9.0   |
| 479.0                                                                                                                                      | -    | 11.9     | 9.5   | 485.6                                                                                                                                      | -    | 9.0      | -     |
| 485.6                                                                                                                                      | -    | 9.5      | -     |                                                                                                                                            |      |          |       |

|                                                                                     |      |            |            |            |            |            |            |            |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|------------|
|  | 0 lb | 143,300 lb | 275,600 lb | 363,800 lb | 452,000 lb | 540,200 lb | 628,400 lb | 716,600 lb |
|-------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|------------|

\* Main boom angle 85°

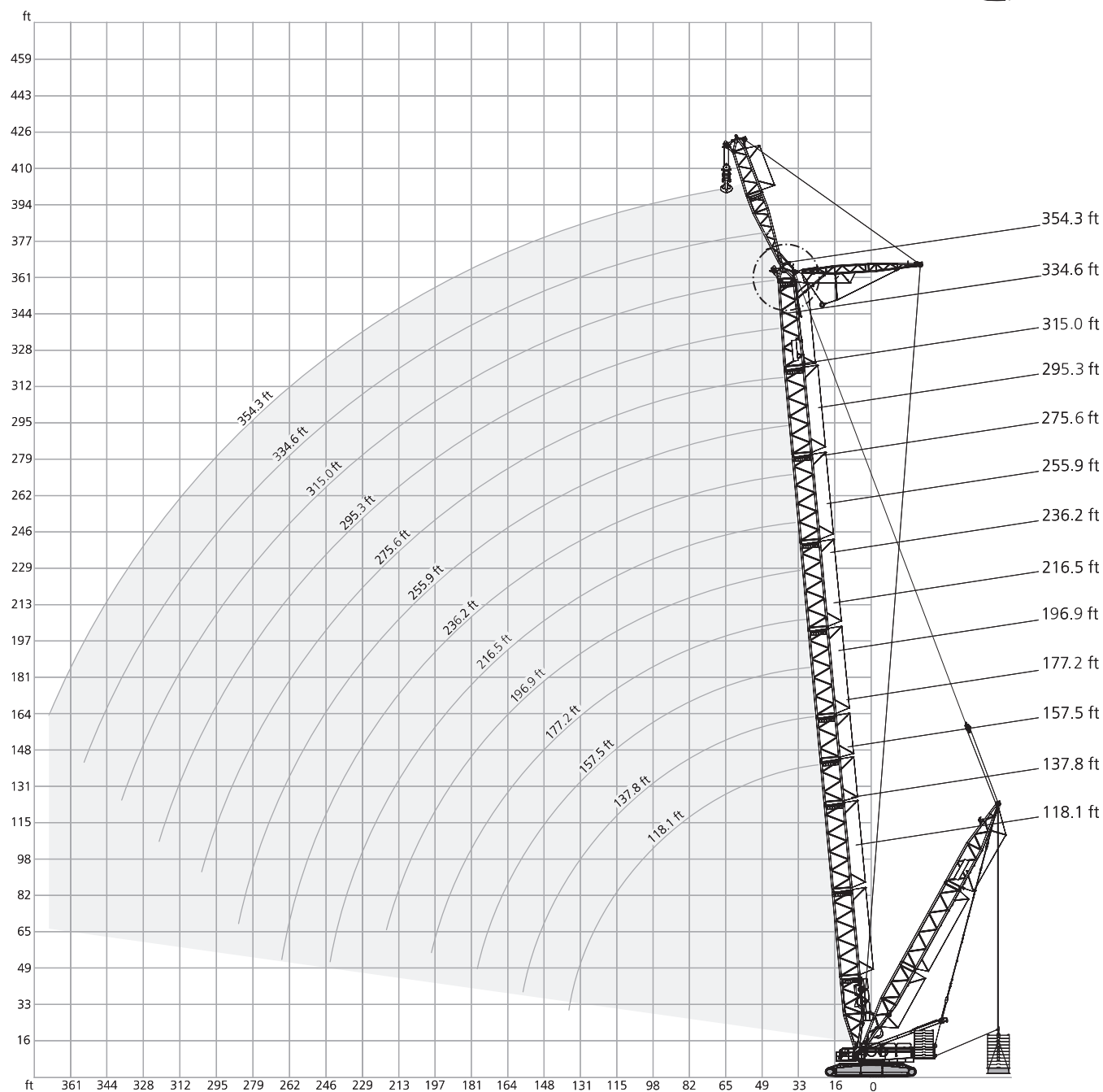
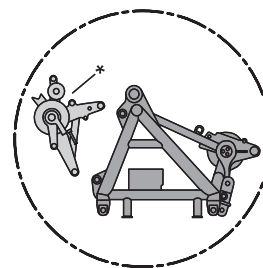
Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1



# LVSL

## 15°

# CC 3800-1



\* Attachable

| <div><div> 363,800 lb +  110,200 lb  36.1-68.9 ft  59 ft  15°  27.6 ft  32.2 ft/s 360° ASME B30.5</div></div> |       |       |       |       |          |       |       |       |       |       |       |       |       |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <div><div> <div><div>118.1 ft</div><div>137.8 ft</div><div>157.5 ft</div><div>177.2 ft</div><div>196.9 ft</div></div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |       |       |       |          |       |       |       |       |       |       |       |       |       |
| <div><div> <div><div>LVSL_1</div><div>LVSL_3</div><div>LVSL_1</div><div>LVSL_3</div><div>LVSL_1</div><div>LVSL_3</div><div>LVSL_4</div></div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |       |       |       |          |       |       |       |       |       |       |       |       |       |
| <div><div>  <div><div>0 lb</div><div>0 lb - 716.6 klb</div><div>0 lb</div><div>0 lb - 716.6 klb</div><div>0 lb</div><div>0 lb - 716.6 klb</div><div>0 lb</div><div>0 lb - 716.6 klb</div><div>0 lb</div><div>0 lb - 716.6 klb</div><div>0 lb</div><div>0 lb - 716.6 klb</div></div></div></div>                                                                                                                                                                                                                                      |       |       |       |       |          |       |       |       |       |       |       |       |       |       |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |       |       |       | 1,000 lb |       |       |       |       |       |       |       |       |       |
| 45.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -     | -     | 438.7 | 765.0 | 418.9    | 765.0 | 765.0 | -     | -     | -     | -     | -     | -     | -     |
| 49.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -     | -     | 405.7 | 765.0 | 388.0    | 765.0 | 765.0 | 372.6 | 765.0 | 765.0 | 357.1 | 736.3 | 765.0 | 765.0 |
| 52.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -     | -     | 377.0 | 765.0 | 361.6    | 765.0 | 765.0 | 346.1 | 765.0 | 765.0 | 332.9 | 736.3 | 765.0 | 765.0 |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -     | -     | 328.5 | 765.0 | 315.3    | 765.0 | 765.0 | 304.2 | 765.0 | 765.0 | 291.0 | 734.1 | 765.0 | 765.0 |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -     | -     | 291.0 | 765.0 | 277.8    | 765.0 | 765.0 | 266.8 | 765.0 | 765.0 | 255.7 | 720.9 | 765.0 | 765.0 |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -     | -     | 255.7 | 765.0 | 246.9    | 765.0 | 765.0 | 238.1 | 765.0 | 765.0 | 227.1 | 712.1 | 765.0 | 765.0 |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -     | -     | 222.7 | 765.0 | 220.5    | 758.4 | 765.0 | 213.8 | 754.0 | 765.0 | 203.9 | 705.5 | 765.0 | 765.0 |
| 82.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 212.7 | 738.5 | 210.0 | 735.2 | 207.2    | 729.7 | 761.7 | 202.3 | 725.3 | 759.5 | 194.0 | 698.9 | 757.3 | 756.2 |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 199.5 | 709.9 | 197.3 | 705.5 | 194.0    | 701.1 | 758.4 | 190.7 | 696.7 | 754.0 | 184.1 | 692.3 | 749.6 | 747.4 |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 178.6 | 657.0 | 175.3 | 652.6 | 172.0    | 646.0 | 705.5 | 168.7 | 641.5 | 701.1 | 165.3 | 639.3 | 694.5 | 694.5 |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 159.8 | 608.5 | 156.5 | 604.1 | 153.2    | 599.7 | 654.8 | 149.9 | 595.2 | 650.4 | 146.6 | 590.8 | 646.0 | 646.0 |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 131.9 | 520.3 | 128.6 | 530.6 | 125.3    | 526.2 | 575.4 | 122.1 | 521.8 | 571.0 | 119.1 | 517.4 | 566.6 | 565.1 |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 108.9 | 439.5 | 105.5 | 465.2 | 101.7    | 461.5 | 505.6 | 98.3  | 457.8 | 501.2 | 95.2  | 453.4 | 496.8 | 495.3 |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 90.8  | 366.0 | 87.1  | 407.9 | 82.5     | 405.7 | 445.3 | 78.3  | 403.4 | 440.9 | 74.7  | 399.0 | 436.5 | 436.5 |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 77.0  | 308.6 | 72.7  | 349.1 | 68.0     | 363.0 | 399.8 | 63.7  | 359.4 | 396.8 | 59.9  | 356.4 | 392.4 | 392.4 |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 64.4  | 252.1 | 60.2  | 298.4 | 55.4     | 321.1 | 351.3 | 51.0  | 321.1 | 357.1 | 47.0  | 318.2 | 352.7 | 352.7 |
| 167.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 61.5  | 238.1 | 57.5  | 287.7 | 52.7     | 310.9 | 338.4 | 48.3  | 313.1 | 348.3 | 44.2  | 309.7 | 343.9 | 343.9 |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | 49.6  | 255.7 | 44.5     | 280.0 | 304.2 | 40.1  | 288.8 | 321.9 | 35.9  | 284.4 | 317.5 | 317.5 |
| 183.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | 45.2  | 240.3 | 40.4     | 259.4 | 283.7 | 35.9  | 274.1 | 302.8 | 31.7  | 271.9 | 303.5 | 303.5 |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | -     | -     | 36.3     | 241.8 | 263.1 | 31.7  | 259.4 | 283.7 | 27.4  | 259.4 | 289.5 | 289.5 |
| 200.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | -     | -     | 30.4     | 218.3 | 235.9 | 25.9  | 235.9 | 255.0 | 21.5  | 240.9 | 267.9 | 267.5 |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | -     | -     | -        | -     | -     | 24.3  | 227.1 | 245.4 | 19.8  | 234.8 | 260.1 | 259.4 |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | -     | -     | -        | -     | -     | 17.6  | 200.6 | 216.1 | 13.0  | 210.5 | 229.3 | 227.1 |
| 223.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | -     | -     | -        | -     | -     | -     | -     | -     | 10.1  | 195.1 | 213.4 | 211.6 |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | -     | -     | -        | -     | -     | -     | -     | -     | -     | 182.6 | 201.9 | 200.6 |
| 232.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | -     | -     | -        | -     | -     | -     | -     | -     | -     | 178.6 | 196.2 | 195.1 |

 0 lb   143,300 lb   275,600 lb   363,800 lb   452,000 lb   540,200 lb   628,400 lb   716,600 lb

LVSL\_1:  36.1 ft – 62.3 ft

LVSL\_3, LVSL\_4:  36.1 ft – 68.9 ft

LVSL\_3 + LVSL\_4:  496,100 lb +  110,200 lb

| <div><div> 363,800 lb +  110,200 lb  36.1-68.9 ft  59 ft  15°  27.6 ft  32.2 ft/s 360° ASME B30.5</div></div> |          |       |                  |        |          |       |                  |        |          |        |        |          |                  |        |          |        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|------------------|--------|----------|-------|------------------|--------|----------|--------|--------|----------|------------------|--------|----------|--------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 216.5 ft |       |                  |        | 236.2 ft |       |                  |        | 246.1 ft |        |        | 255.9 ft |                  |        | 265.8 ft |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | LVSL_1   |       | LVSL_3           | LVSL_4 | LVSL_1   |       | LVSL_3           | LVSL_4 | LVSL_3   | LVSL_4 | LVSL_1 |          | LVSL_3           | LVSL_4 | LVSL_3   | LVSL_4 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0 lb     |       | 0 lb - 716.6 klb |        | 0 lb     |       | 0 lb - 716.6 klb |        |          |        | 0 lb   |          | 0 lb - 716.6 klb |        |          |        |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |       |                  |        | 1,000 lb |       |                  |        |          |        |        |          |                  |        |          |        |
| 52.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 319.7    | 648.2 | 765.0            | 765.0  | 306.4    | 577.6 | 692.3            | 692.3  | -        | 692.3  | -      | -        | -                | -      | -        | -      |
| 55.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 299.8    | 648.2 | 765.0            | 765.0  | 286.6    | 577.6 | 692.3            | 692.3  | 681.2    | 692.3  | 275.6  | 478.4    | 650.4            | 679.0  | 617.3    | 619.5  |
| 59.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 280.0    | 648.2 | 765.0            | 765.0  | 269.0    | 577.6 | 692.3            | 692.3  | 681.2    | 692.3  | 257.9  | 478.4    | 650.4            | 676.8  | 615.1    | 619.5  |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 246.9    | 648.2 | 765.0            | 765.0  | 235.9    | 577.6 | 692.3            | 692.3  | 674.6    | 692.3  | 229.3  | 478.4    | 648.2            | 676.8  | 612.9    | 619.5  |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 220.5    | 639.3 | 765.0            | 765.0  | 210.5    | 577.6 | 692.3            | 692.3  | 668.0    | 687.8  | 202.8  | 476.2    | 641.5            | 672.4  | 610.7    | 619.5  |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 197.3    | 632.7 | 758.4            | 765.0  | 187.4    | 571.0 | 692.3            | 692.3  | 661.4    | 683.4  | 180.8  | 471.8    | 637.1            | 665.8  | 606.3    | 619.5  |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 176.4    | 626.1 | 745.2            | 743.0  | 168.7    | 564.4 | 692.3            | 692.3  | 657.0    | 676.8  | 162.0  | 467.4    | 632.7            | 659.2  | 601.9    | 619.5  |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 158.7    | 619.5 | 692.3            | 690.0  | 151.0    | 560.0 | 687.8            | 683.4  | 652.6    | 672.4  | 145.5  | 463.0    | 623.9            | 648.2  | 595.2    | 617.3  |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 143.3    | 588.6 | 641.5            | 641.5  | 136.7    | 553.4 | 639.3            | 634.9  | 632.7    | 628.3  | 131.2  | 458.6    | 615.1            | 626.1  | 586.4    | 610.7  |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 116.8    | 515.1 | 562.2            | 560.7  | 112.6    | 500.4 | 558.5            | 555.6  | 551.9    | 549.0  | 108.2  | 443.9    | 547.5            | 549.7  | 533.5    | 538.7  |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 93.3     | 451.2 | 493.1            | 491.6  | 90.2     | 447.5 | 488.7            | 486.5  | 482.8    | 479.9  | 87.3   | 420.3    | 485.0            | 482.8  | 477.7    | 474.0  |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 72.5     | 396.8 | 434.3            | 434.3  | 69.4     | 394.6 | 429.9            | 427.7  | 425.5    | 421.1  | 68.3   | 392.4    | 427.7            | 425.5  | 418.9    | 416.7  |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 57.7     | 354.2 | 388.7            | 388.7  | 54.5     | 352.0 | 384.3            | 382.1  | 379.9    | 377.0  | 53.2   | 349.8    | 382.1            | 379.9  | 374.8    | 372.6  |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 44.7     | 316.0 | 349.1            | 349.1  | 41.3     | 313.8 | 344.7            | 342.5  | 340.2    | 338.0  | 40.0   | 312.3    | 341.7            | 339.5  | 335.8    | 333.6  |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 33.5     | 282.2 | 315.3            | 315.3  | 30.0     | 280.0 | 310.9            | 308.6  | 306.4    | 304.2  | 28.7   | 280.0    | 306.4            | 304.2  | 302.0    | 299.8  |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 24.8     | 257.2 | 287.3            | 287.3  | 21.2     | 253.5 | 282.9            | 280.7  | 278.5    | 276.3  | 19.7   | 253.5    | 280.0            | 277.8  | 274.1    | 271.9  |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 17.0     | 234.4 | 262.4            | 261.6  | 13.1     | 230.4 | 257.9            | 255.7  | 253.5    | 251.3  | 11.5   | 228.5    | 255.7            | 252.8  | 249.1    | 246.5  |
| 206.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15.3     | 229.3 | 256.8            | 255.7  | 11.3     | 225.4 | 252.4            | 250.2  | 248.0    | 245.8  | 9.7    | 222.7    | 250.2            | 246.9  | 243.6    | 240.7  |
| 210.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 13.6     | 224.1 | 251.3            | 249.9  | 9.5      | 220.5 | 246.9            | 244.7  | 242.5    | 240.3  | -      | 218.3    | 244.7            | 241.0  | 238.1    | 235.0  |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10.1     | 213.8 | 240.3            | 238.1  | -        | 210.5 | 235.9            | 233.7  | 231.5    | 229.3  | -      | 209.4    | 233.7            | 229.3  | 227.1    | 224.9  |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 194.0 | 213.8            | 212.4  | -        | 193.6 | 217.5            | 213.8  | 212.7    | 210.5  | -      | 192.5    | 213.8            | 211.6  | 208.7    | 206.5  |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 170.9 | 188.1            | 186.3  | -        | 176.4 | 196.6            | 193.3  | 194.4    | 191.8  | -      | 176.7    | 196.9            | 194.7  | 191.8    | 189.6  |
| 252.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 155.4 | 172.0            | 170.9  | -        | 163.1 | 178.9            | 175.6  | 180.0    | 176.9  | -      | 165.7    | 184.8            | 182.6  | 180.2    | 178.0  |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -     | -                | -      | -        | 158.7 | 173.1            | 169.8  | 175.3    | 172.0  | -      | 162.0    | 180.8            | 178.6  | 176.4    | 174.2  |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -     | -                | -      | -        | 137.8 | 155.4            | 151.0  | 152.9    | 149.9  | -      | 146.6    | 159.5            | 156.5  | 158.0    | 155.8  |
| 278.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -     | -                | -      | -        | -     | -                | -      | 141.1    | 137.8  | -      | 133.7    | 143.3            | 140.0  | 143.9    | 141.5  |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -     | -                | -      | -        | -     | -                | -      | -        | -      | -      | 128.6    | 140.0            | 136.3  | 138.9    | 136.5  |
| 285.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -     | -                | -      | -        | -     | -                | -      | -        | -      | -      | 123.5    | 136.7            | 133.4  | 133.9    | 131.4  |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -     | -                | -      | -        | -     | -                | -      | -        | -      | -      | -        | -                | -      | 124.6    | 121.3  |

 0 lb    143,300 lb    275,600 lb    363,800 lb    452,000 lb    540,200 lb    628,400 lb    716,600 lb

LVSL\_1:  36.1 ft – 62.3 ft

LVSL\_3, LVSL\_4:  36.1 ft – 68.9 ft

LVSL\_3 + LVSL\_4:  496,100 lb +  110,200 lb

| 363,800 lb + 110,200 lb 36.1-68.9 ft 59 ft 15° 27.6 ft 32.2 ft/s 360° ASME B30.5 |       |                  |        |        |          |        |          |                  |        |        |          |        |          |                  |        |       |  |
|----------------------------------------------------------------------------------|-------|------------------|--------|--------|----------|--------|----------|------------------|--------|--------|----------|--------|----------|------------------|--------|-------|--|
| 275.6 ft                                                                         |       |                  |        |        | 285.5 ft |        | 295.3 ft |                  |        |        | 305.1 ft |        | 315.0 ft |                  |        |       |  |
| LVSL_1                                                                           |       | LVSL_3           | LVSL_4 | LVSL_3 | LVSL_4   | LVSL_1 |          | LVSL_3           | LVSL_4 | LVSL_3 | LVSL_4   | LVSL_1 |          | LVSL_3           | LVSL_4 |       |  |
| 0 lb                                                                             |       | 0 lb - 716.6 klb |        |        |          | 0 lb   |          | 0 lb - 716.6 klb |        |        |          | 0 lb   |          | 0 lb - 716.6 klb |        |       |  |
| ft                                                                               |       |                  |        |        |          |        | 1,000 lb |                  |        |        |          |        |          |                  |        |       |  |
| 55.8                                                                             | 264.6 | 432.1            | 599.7  | 619.5  | -        | -      | -        | -                | -      | -      | -        | -      | -        | -                | -      | -     |  |
| 59.1                                                                             | 246.9 | 432.1            | 599.7  | 619.5  | 568.8    | 595.2  | 238.1    | 385.8            | 540.1  | 544.5  | 509.3    | 537.9  | 227.1    | 346.1            | 491.6  | 520.3 |  |
| 65.6                                                                             | 219.4 | 429.9            | 597.5  | 619.5  | 566.6    | 593.0  | 209.4    | 385.8            | 537.9  | 544.5  | 509.3    | 533.5  | 199.5    | 346.1            | 491.6  | 518.1 |  |
| 72.2                                                                             | 194.0 | 427.7            | 595.2  | 619.5  | 562.2    | 590.8  | 185.2    | 381.4            | 533.5  | 544.5  | 507.1    | 531.3  | 176.4    | 343.9            | 491.6  | 513.7 |  |
| 78.7                                                                             | 173.1 | 423.3            | 588.6  | 615.1  | 555.6    | 584.2  | 165.3    | 379.2            | 531.3  | 544.5  | 502.7    | 526.9  | 156.5    | 341.7            | 485.0  | 513.7 |  |
| 85.3                                                                             | 154.3 | 418.9            | 584.2  | 608.5  | 551.2    | 579.8  | 146.6    | 374.8            | 526.9  | 544.5  | 496.0    | 524.7  | 138.9    | 337.3            | 482.8  | 507.1 |  |
| 91.9                                                                             | 137.8 | 414.5            | 577.6  | 604.1  | 549.0    | 575.4  | 131.2    | 370.4            | 520.3  | 544.5  | 496.0    | 520.3  | 123.5    | 332.9            | 480.6  | 502.7 |  |
| 98.4                                                                             | 123.5 | 410.1            | 571.0  | 597.5  | 544.5    | 568.8  | 116.8    | 366.0            | 515.9  | 542.3  | 491.6    | 513.7  | 110.2    | 328.5            | 474.0  | 498.2 |  |
| 111.5                                                                            | 101.3 | 396.8            | 531.3  | 537.2  | 513.7    | 521.8  | 95.1     | 355.7            | 496.8  | 510.7  | 474.0    | 491.6  | 88.6     | 318.2            | 459.3  | 482.1 |  |
| 124.7                                                                            | 81.7  | 381.4            | 482.1  | 478.4  | 471.8    | 469.6  | 76.0     | 343.9            | 466.6  | 470.3  | 449.0    | 457.1  | 69.7     | 307.2            | 441.7  | 454.9 |  |
| 137.8                                                                            | 64.8  | 368.2            | 423.3  | 421.1  | 414.5    | 412.3  | 59.5     | 330.7            | 421.1  | 418.9  | 407.9    | 405.7  | 53.4     | 295.4            | 412.3  | 412.3 |  |
| 150.9                                                                            | 50.0  | 340.2            | 379.2  | 377.0  | 370.4    | 368.2  | 46.6     | 316.0            | 377.0  | 374.8  | 365.2    | 363.0  | 40.7     | 282.2            | 371.1  | 369.6 |  |
| 164.0                                                                            | 36.8  | 309.4            | 339.5  | 337.3  | 331.4    | 329.2  | 34.4     | 296.9            | 337.3  | 335.1  | 327.0    | 324.1  | 29.4     | 269.7            | 332.9  | 330.7 |  |
| 177.2                                                                            | 25.4  | 275.6            | 304.2  | 302.0  | 297.6    | 295.4  | 22.9     | 273.4            | 302.0  | 299.8  | 293.2    | 288.8  | 19.4     | 257.9            | 297.6  | 295.4 |  |
| 190.3                                                                            | 16.4  | 250.6            | 276.3  | 274.1  | 269.7    | 267.5  | 13.8     | 248.4            | 272.6  | 270.4  | 265.3    | 262.4  | 9.9      | 244.7            | 269.7  | 267.5 |  |
| 196.9                                                                            | 11.9  | 238.1            | 262.4  | 260.1  | 255.7    | 253.5  | 9.3      | 235.9            | 257.9  | 255.7  | 251.3    | 249.1  | -        | 231.5            | 255.7  | 253.5 |  |
| 200.1                                                                            | 9.9   | 231.5            | 256.8  | 254.6  | 250.2    | 248.0  | -        | 230.6            | 252.6  | 250.2  | 244.7    | 243.6  | -        | 226.3            | 249.1  | 246.9 |  |
| 203.4                                                                            | -     | 226.4            | 251.3  | 249.1  | 244.7    | 242.5  | -        | 225.2            | 247.4  | 244.7  | 239.4    | 238.1  | -        | 221.2            | 242.5  | 241.6 |  |
| 216.5                                                                            | -     | 206.1            | 229.3  | 227.1  | 222.7    | 220.5  | -        | 203.9            | 224.9  | 224.9  | 218.3    | 216.1  | -        | 200.6            | 222.7  | 220.5 |  |
| 229.7                                                                            | -     | 189.2            | 209.4  | 208.0  | 204.3    | 202.1  | -        | 187.0            | 206.5  | 205.8  | 199.9    | 197.7  | -        | 183.7            | 203.6  | 201.4 |  |
| 242.8                                                                            | -     | 173.4            | 192.5  | 190.3  | 187.0    | 185.2  | -        | 171.2            | 189.6  | 188.1  | 182.6    | 180.8  | -        | 167.9            | 185.9  | 183.7 |  |
| 255.9                                                                            | -     | 158.7            | 176.4  | 174.2  | 170.9    | 169.8  | -        | 156.5            | 174.2  | 172.0  | 166.4    | 165.3  | -        | 153.2            | 169.8  | 167.6 |  |
| 269.0                                                                            | -     | 147.0            | 162.4  | 159.5  | 157.6    | 155.8  | -        | 144.2            | 160.2  | 157.3  | 153.2    | 151.0  | -        | 140.4            | 155.8  | 153.4 |  |
| 282.2                                                                            | -     | 135.6            | 145.5  | 142.2  | 143.3    | 140.9  | -        | 132.3            | 147.3  | 143.3  | 140.4    | 138.2  | -        | 129.0            | 142.6  | 139.6 |  |
| 295.3                                                                            | -     | 117.9            | 125.7  | 122.4  | 125.7    | 122.4  | -        | 121.3            | 132.3  | 129.0  | 127.9    | 125.7  | -        | 117.9            | 130.1  | 125.7 |  |
| 301.8                                                                            | -     | 109.1            | 119.0  | 114.6  | 116.7    | 113.5  | -        | 114.1            | 123.7  | 120.5  | 119.9    | 117.6  | -        | 112.8            | 123.4  | 119.6 |  |
| 308.4                                                                            | -     | -                | -      | -      | 111.4    | 106.4  | -        | 107.0            | 115.1  | 112.1  | 112.0    | 109.5  | -        | 107.7            | 116.7  | 113.5 |  |
| 311.7                                                                            | -     | -                | -      | -      | 108.9    | 104.1  | -        | 103.4            | 110.8  | 107.8  | 108.0    | 105.5  | -        | 105.1            | 113.4  | 110.4 |  |
| 321.5                                                                            | -     | -                | -      | -      | -        | -      | -        | 91.7             | 99.2   | 95.0   | 96.1     | 93.4   | -        | 95.4             | 102.2  | 99.6  |  |
| 328.1                                                                            | -     | -                | -      | -      | -        | -      | -        | -                | -      | -      | 91.3     | 86.4   | -        | 88.3             | 94.4   | 91.8  |  |
| 334.6                                                                            | -     | -                | -      | -      | -        | -      | -        | -                | -      | -      | -        | -      | -        | 81.1             | 86.6   | 84.0  |  |
| 337.9                                                                            | -     | -                | -      | -      | -        | -      | -        | -                | -      | -      | -        | -      | -        | 77.6             | 83.1   | 80.0  |  |

 0 lb    143,300 lb    275,600 lb    363,800 lb    452,000 lb    540,200 lb    628,400 lb    716,600 lb

LVSL\_1:  36.1 ft – 62.3 ft

LVSL\_3, LVSL\_4:  36.1 ft – 68.9 ft

LVSL\_3 + LVSL\_4:  496,100 lb +  110,200 lb

| <div><div><div><div></div><div></div><div></div></div><div>363,800 lb + <div><div></div><div></div><div></div></div>110,200 lb <div><div></div><div></div><div></div></div>36.1-68.9 ft <div><div></div><div></div><div></div></div>59 ft <div><div></div><div></div><div></div></div>15° <div><div></div><div></div><div></div></div>27.6 ft <div><div></div><div></div><div></div></div>32.2 ft/s <div>360° ASME B30.5</div></div></div></div> |                                                       |                             |       |                     |                             |                   |       |                     |                   |                     |                             |                   |                   |                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------|-------|---------------------|-----------------------------|-------------------|-------|---------------------|-------------------|---------------------|-----------------------------|-------------------|-------------------|----------------------------------------------|
| <div><div></div><div></div><div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                     | <div><div></div><div></div><div></div></div> 324.8 ft |                             |       | <div>334.6 ft</div> |                             |                   |       | <div>344.5 ft</div> |                   | <div>354.3 ft</div> |                             |                   |                   | <div><div></div><div></div><div></div></div> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <div>LVSL_3</div>                                     | <div>LVSL_4</div>           |       | <div>LVSL_1</div>   | <div>LVSL_3</div>           | <div>LVSL_4</div> |       | <div>LVSL_3</div>   | <div>LVSL_4</div> |                     | <div>LVSL_1</div>           | <div>LVSL_3</div> | <div>LVSL_4</div> |                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <div><div></div><div></div><div></div></div>          | <div>0 lb - 716.6 klb</div> |       | <div>0 lb</div>     | <div>0 lb - 716.6 klb</div> |                   |       |                     |                   | <div>0 lb</div>     | <div>0 lb - 716.6 klb</div> |                   |                   |                                              |
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1,000 lb                                              |                             |       |                     |                             |                   |       |                     |                   |                     |                             |                   | ft                |                                              |
| 62.3                                                                                                                                                                                                                                                                                                                                                                                                                                             | 465.2                                                 | 491.6                       | 203.9 | 308.6               | 440.9                       | 467.4             | 414.5 | 440.9               | 194.0             | 275.6               | 399.0                       | 425.5             | 62.3              |                                              |
| 65.6                                                                                                                                                                                                                                                                                                                                                                                                                                             | 465.2                                                 | 491.6                       | 190.7 | 308.6               | 440.9                       | 465.2             | 414.5 | 440.9               | 181.9             | 275.6               | 399.0                       | 425.5             | 65.6              |                                              |
| 72.2                                                                                                                                                                                                                                                                                                                                                                                                                                             | 465.2                                                 | 489.4                       | 168.7 | 306.4               | 440.9                       | 463.0             | 414.5 | 438.7               | 159.8             | 273.4               | 399.0                       | 425.5             | 72.2              |                                              |
| 78.7                                                                                                                                                                                                                                                                                                                                                                                                                                             | 460.8                                                 | 485.0                       | 148.8 | 304.2               | 440.9                       | 460.8             | 414.5 | 438.7               | 141.1             | 271.2               | 399.0                       | 423.3             | 78.7              |                                              |
| 85.3                                                                                                                                                                                                                                                                                                                                                                                                                                             | 458.6                                                 | 480.6                       | 132.3 | 302.0               | 436.5                       | 460.8             | 412.3 | 436.5               | 124.6             | 269.0               | 399.0                       | 421.1             | 85.3              |                                              |
| 91.9                                                                                                                                                                                                                                                                                                                                                                                                                                             | 454.2                                                 | 478.4                       | 116.8 | 295.4               | 432.1                       | 456.4             | 410.1 | 432.1               | 110.2             | 264.6               | 394.6                       | 416.7             | 91.9              |                                              |
| 98.4                                                                                                                                                                                                                                                                                                                                                                                                                                             | 449.7                                                 | 474.0                       | 104.1 | 291.0               | 429.9                       | 451.9             | 405.7 | 427.7               | 97.2              | 260.1               | 390.2                       | 414.5             | 98.4              |                                              |
| 111.5                                                                                                                                                                                                                                                                                                                                                                                                                                            | 438.0                                                 | 460.0                       | 82.6  | 283.7               | 418.1                       | 438.7             | 396.1 | 418.9               | 76.2              | 252.8               | 382.1                       | 403.4             | 111.5             |                                              |
| 124.7                                                                                                                                                                                                                                                                                                                                                                                                                                            | 424.0                                                 | 438.0                       | 63.9  | 274.1               | 406.4                       | 423.3             | 385.1 | 403.4               | 57.8              | 244.0               | 369.6                       | 391.0             | 124.7             |                                              |
| 137.8                                                                                                                                                                                                                                                                                                                                                                                                                                            | 403.4                                                 | 401.2                       | 47.8  | 262.4               | 394.6                       | 396.8             | 374.8 | 385.8               | 41.9              | 233.7               | 359.4                       | 379.2             | 137.8             |                                              |
| 150.9                                                                                                                                                                                                                                                                                                                                                                                                                                            | 359.4                                                 | 357.1                       | 35.5  | 250.6               | 362.3                       | 361.6             | 346.9 | 349.1               | 29.7              | 223.4               | 340.2                       | 348.3             | 150.9             |                                              |
| 164.0                                                                                                                                                                                                                                                                                                                                                                                                                                            | 320.4                                                 | 318.2                       | 24.3  | 238.8               | 329.2                       | 327.0             | 316.0 | 313.8               | 18.6              | 213.0               | 317.5                       | 318.2             | 164.0             |                                              |
| 173.9                                                                                                                                                                                                                                                                                                                                                                                                                                            | 295.1                                                 | 292.8                       | 16.8  | 230.0               | 303.9                       | 301.7             | 290.6 | 288.4               | 11.0              | 205.0               | 297.6                       | 296.2             | 173.9             |                                              |
| 177.2                                                                                                                                                                                                                                                                                                                                                                                                                                            | 286.6                                                 | 284.4                       | 14.3  | 227.1               | 295.4                       | 293.2             | 282.2 | 280.0               | -                 | 202.8               | 291.0                       | 288.8             | 177.2             |                                              |
| 183.7                                                                                                                                                                                                                                                                                                                                                                                                                                            | 272.3                                                 | 270.1                       | 9.9   | 222.7               | 281.5                       | 279.3             | 267.5 | 264.6               | -                 | 197.3               | 276.9                       | 274.7             | 183.7             |                                              |
| 190.3                                                                                                                                                                                                                                                                                                                                                                                                                                            | 257.9                                                 | 255.7                       | -     | 216.6               | 267.5                       | 265.3             | 253.5 | 251.3               | -                 | 191.8               | 262.8                       | 260.6             | 190.3             |                                              |
| 203.4                                                                                                                                                                                                                                                                                                                                                                                                                                            | 234.1                                                 | 231.9                       | -     | 204.7               | 241.2                       | 239.9             | 229.3 | 227.1               | -                 | 180.8               | 238.1                       | 236.3             | 203.4             |                                              |
| 216.5                                                                                                                                                                                                                                                                                                                                                                                                                                            | 212.7                                                 | 210.5                       | -     | 192.9               | 218.3                       | 217.2             | 207.2 | 205.0               | -                 | 169.8               | 216.1                       | 215.0             | 216.5             |                                              |
| 229.7                                                                                                                                                                                                                                                                                                                                                                                                                                            | 194.4                                                 | 192.2                       | -     | 178.9               | 199.9                       | 198.0             | 188.9 | 186.7               | -                 | 158.7               | 196.2                       | 193.6             | 229.7             |                                              |
| 242.8                                                                                                                                                                                                                                                                                                                                                                                                                                            | 177.5                                                 | 175.3                       | -     | 164.6               | 182.6                       | 180.0             | 171.7 | 169.8               | -                 | 148.3               | 178.2                       | 174.9             | 242.8             |                                              |
| 255.9                                                                                                                                                                                                                                                                                                                                                                                                                                            | 162.0                                                 | 159.8                       | -     | 149.9               | 166.4                       | 163.1             | 156.5 | 154.3               | -                 | 137.8               | 162.0                       | 158.7             | 255.9             |                                              |
| 269.0                                                                                                                                                                                                                                                                                                                                                                                                                                            | 148.8                                                 | 146.6                       | -     | 137.4               | 152.1                       | 147.7             | 143.3 | 141.1               | -                 | 128.2               | 147.2                       | 144.0             | 269.0             |                                              |
| 282.2                                                                                                                                                                                                                                                                                                                                                                                                                                            | 136.3                                                 | 134.1                       | -     | 125.7               | 138.5                       | 133.4             | 130.8 | 128.6               | -                 | 118.7               | 133.4                       | 130.1             | 282.2             |                                              |
| 295.3                                                                                                                                                                                                                                                                                                                                                                                                                                            | 124.6                                                 | 122.4                       | -     | 114.6               | 124.6                       | 120.2             | 119.0 | 116.8               | -                 | 109.1               | 120.2                       | 116.8             | 295.3             |                                              |
| 308.4                                                                                                                                                                                                                                                                                                                                                                                                                                            | 111.6                                                 | 109.1                       | -     | 104.9               | 113.5                       | 108.8             | 109.3 | 106.0               | -                 | 99.7                | 108.7                       | 105.0             | 308.4             |                                              |
| 321.5                                                                                                                                                                                                                                                                                                                                                                                                                                            | 98.0                                                  | 95.2                        | -     | 95.7                | 102.6                       | 97.9              | 97.4  | 94.1                | -                 | 90.5                | 97.8                        | 94.1              | 321.5             |                                              |
| 334.6                                                                                                                                                                                                                                                                                                                                                                                                                                            | 83.6                                                  | 80.9                        | -     | 84.4                | 90.8                        | 88.2              | 84.2  | 81.8                | -                 | 81.6                | 87.5                        | 83.8              | 334.6             |                                              |
| 344.5                                                                                                                                                                                                                                                                                                                                                                                                                                            | 74.7                                                  | 71.0                        | -     | 74.7                | 80.2                        | 77.6              | 74.6  | 72.2                | -                 | 74.4                | 80.1                        | 77.0              | 344.5             |                                              |
| 347.8                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                     | -                           | -     | 71.5                | 76.7                        | 74.1              | 71.4  | 69.0                | -                 | 72.0                | 77.7                        | 74.7              | 347.8             |                                              |
| 354.3                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                     | -                           | -     | 65.0                | 69.7                        | 67.0              | 65.0  | 62.6                | -                 | 67.2                | 72.8                        | 70.1              | 354.3             |                                              |
| 360.9                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                     | -                           | -     | -                   | -                           | -                 | 59.3  | 56.3                | -                 | 61.5                | 66.2                        | 63.8              | 360.9             |                                              |
| 364.2                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                     | -                           | -     | -                   | -                           | -                 | 57.5  | 54.0                | -                 | 58.5                | 63.1                        | 60.6              | 364.2             |                                              |
| 370.7                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                     | -                           | -     | -                   | -                           | -                 | -     | -                   | -                 | 52.7                | 56.7                        | 54.2              | 370.7             |                                              |


 0 lb    143,300 lb    275,600 lb    363,800 lb    452,000 lb    540,200 lb    628,400 lb    716,600 lb

LVSL\_1:  36.1 ft – 62.3 ft

LVSL\_3, LVSL\_4:  36.1 ft – 68.9 ft

LVSL\_3 + LVSL\_4:  496,100 lb +  110,200 lb



Ratings are in compliance with ISO 4305.

Lifting capacities do not exceed 75% of tipping load.

Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings.  
Consult operation manual for further details.

**Note:** Data published herein is intended as a guide only and shall not be construed to warrant applicability for lifting purposes.  
Crane operation is subject to the computer charts and operation manual both supplied with the crane.

In some instances the superlift counterweight does not lift off the ground with the indicated load.

### Crawler carrier

3-section carrier comprising of carbody and two crawlers. Hydraulic pin connections between crawlers and carbody provide for easy assembly and removal to minimise width and weight for transportation.  
Track width: 27.6 ft.

#### Carbody

Bending- and torsion-resistant welded structure of box type construction, fabricated of high-strength fine grain structural steel.

#### Crawlers

Bending-resistant welded structure of high-strength fine grain structural steel. Automatic centralised lubrication is included as standard. 16 rollers on each side frame with hardened rolling surfaces. Raised position for both drive sprockets and idler wheels, drive sprockets and idler wheels provide load bearing capacity for erection, adjustable track tension. Crawler pads: 4.9 ft wide.

#### Crawler drive

The tracks are powered by one hydraulic motor each through closed planetary gear reduction units running in oil bath, equipped with spring-applied hydraulically released holding brakes; the gear units are of very compact design to fit within the width of the crawlers. Each crawler is infinitely variable controlled, both independently and in opposite direction. Tractive effort: 315 kip per side.

#### Assembly jacks

Four hydraulic jacking cylinders on carbody (folding within 9.8 ft width) for easy assembly of crawlers.

### Superstructure

#### Counterweight

452,000 lb (max. 496,100 lb) counterweight on superstructure combination with 110,200 lb central ballast. Steelbox type. Weight of counterweight blocks: 22,050 lb.

#### Total weight

Approx. 860,000 lb, incl. 363,800 lb counterweight, 78.7 ft SH\_1 boom and hook block.

#### Travel speed on crawlers

Max. 0.68 mph.

#### Reeving winch

Mounted on superstructure.

#### Frame

Torsion-resistant welded structure fabricated of high-strength fine grain structural steel.

#### Slew ring

Triple-row roller bearing slew ring with external ring gear for ease of service and maintenance. Central lubrication system.

#### Drive

Pump distribution gearbox with five variable displacement axial piston pumps, and gear pumps. Silencer with spark-arrestor. Sound insulation covering. 6 cylinder Mercedes-Benz diesel engine type OM 471 LA. Output: 390 kW (523 HP) at 1700 1/min, torque 2460 Nm at 1300 1/min each. The engine complies with emission standard EU Stage IV / EPA Tier 4f regulations. The system is equipped with Ad-Blue and a SCR catalytic converter.

**Optional for non-regulated markets:** 8 cylinder Mercedes-Benz diesel engine type OM 502 LA.

Output: 405 kW (543 HP) at 1800 1/min, torque 2600 Nm at 1300 1/min each. The engine complies with emission standard EU Stage III A / EPA Tier 3 regulations. Fuel tank capacity: 317 gallons.

#### Rope drums

The standard superstructure equipment includes three rope drums – hoist 1, 2 and boom hoist. The drums are powered by hydraulic motors through closed planetary gear units running in oil bath. All rope drums have spring-applied, hydraulically released multi-disk brakes and non-wearing hydraulic braking for load lowering. Rope ends H 1, 2, 3 and W 1, 2 equipped with quick-connect rope end-fittings. All winches are removable to minimise weight for transportation.

#### A-frame

Hydraulic raising systems for A-frame as standard. A-frame, boom hoist and sheave sets for boom hoist can be dismantled as one single transport unit to minimise transport weight. Dismantling of hoist 1 and 2 possible without removing A-frame first.

#### Slew unit

Powered by hydraulic motors through 2 closed, planetary gear units running in oil bath. Spring-applied, hydraulically released holding brakes and non-wearing hydraulic braking. Slew speed infinitely variable 0-1 rpm.

#### Control system

IC-1: Electronic proportional valve pilot control integrated in stored-program control system incl. diagnostic system. Two monitors with colour displays, load moment indicator operated via a touch screen. Working speeds infinitely variable controlled by the lever position. Automatic power control for optimal utilisation of engine output; emergency control systems.

Additional functions:

- Infinitely variable position of Superlift counterweight with the optional adjustable Superlift system 36.1 ft - 62.3 ft
- Infinitely variable position of main boom angle in SWSL configuration 55-87° (65-87° in SW configuration)
- Working area limitation
- Diagnosis and troubleshooting
- User defined joystick mode

The crane is controlled by joystick levers ergonomically positioned in the crane cab. Wireless rigging remote control. Wireless emergency remote control.

#### Cab

Comfortable cab with large windscreen and air condition. Shatterproof-glazing all around, roof window, self-contained hot air heater, full instrumentation and crane controls. Infinitely adjustable operator seat, emergency seat, multiple storage areas, 12-V power plug. The cab can be tilted back for improved operator view of boom point. A camera system is installed to monitor the rope drums. Front window can be opened. Dashboard can be adjusted for optimum ergonomics and view. Front wiper with resting position outside of window area for optimum view. For transportation, the cab swings hydraulically in front of the superstructure to minimise width.

#### Electrical equipment

24 V DC. system (2 x batteries 12 V, 200 Ah).

#### Operator aids

Load moment indicator integrated in IC-1 control (load moment, radius, angles, engine and hydraulic system monitoring), hoist limit switch, limit switches for boom movements, hydraulic boom backstop, position light, anemometer.

## Boom Combinations

See page 14-21.

## Optional equipment

### Hydraulic quick connection

**Crawler pads** 6.6 ft.

**Quadro drive** 2 drives for each crawler carrier 585 lbf tractive force – at reduced drive speed.

### Alternative counterweights made of cast iron

**Alternative counterweight segmentation**  
22,050 lb + 16,540 lb or  
22,050 lb + 33,080 lb

**Hydraulic cylinder on A-frame** For self-assembly of crawler carrier.

**Hydraulic cylinder with or without hydraulic unit** For boom pinning.

**Additional lateral outrigger system** For erection of long boom systems.

**Boom Booster Kit** Consists of 2 x 39.4 ft adapter sections and up to 7 x 39.4 ft inserts.  
Available in length 78.7 ft, 157.5 ft, 196.9 ft, 275.6 ft, 354.3 ft.  
Extension of Superlift mast from 118.1 ft to 129.6 or 137.8 ft.

**Flex frame** Infinite positioning of Superlift counterweight from 42.6 ft – 68.9 ft.

**Split tray** Superlift tray frame with removable platform underneath the center stack of counterweights (center stack max. 275,600 lb).

**Standard SL** 118.1 ft Superlift mast incl. hoist W2.  
SL pendant bars, mast back stop cylinders, SL tray.  
Superlift counterweight 0 lb at radius 29.5 ft or 0 lb – 716,600 lb on counterweight tray at fixed radii 36.1 ft, 42.6 ft, 49.2 ft, 55.8 ft and 62.3 ft.

**Variable SL** Variable 118.1 ft Superlift mast (see Standard SL).  
Additional vertical hydraulic cylinders and stabilisation winch on superstructure (prevents weaving of counterweight especially when traveling and slewing). Height compensation using the cylinders, lifting across obstacles possible to a certain extent. Superlift counterweight 0 lb at radius 29.5 ft or 0 lb – 716,600 lb on counterweight tray, indefinitely variable from 36.1 ft – 62.3 ft.

**SL counterweight carrier** Superlift mast (see Standard SL). Telescopic frame and counterweight carrier for total weight of 716,600 lb, with 4 wheels / 2 axles (driven and steered – full manoeuvrability for slewing, trailing, and parallel modes). Superlift counterweight 88,200 lb – 716,600 lb on counterweight carrier with fixed mast radius approx. 52.5 ft; infinitely adjustable from 42.6 ft – 55.8 ft or 55.8 ft – 62.3 ft resp. with telescopic frame. The counterweight carrier allows for traveling or slewing even when the Superlift counterweight does not lift off the ground (e.g. crane with loads as indicated by load chart values in brackets).

**Hoist H3** Additional hoist for main boom (to operate LF or runner), line pull same as H1, length 2133 ft.

**Runner** Max. lifting capacity 119,100 lb. Mounted on boom head and boom / jib top. Operation by hoist rope 3 (see variable SL).

**Runner for LF standard** Max. lifting capacity 39,700 lb. Operated by rope 3.

**Special LF linkage head** Without sheave set for higher lifting capacities when using LF.

**9.8 ft intermediate section** For 9.8 ft intermediate lengths.





August 2020. Product specifications and prices are subject to change without notice or obligation. The photographs and/or drawings in this document are for illustrative purposes only. Refer to the appropriate Operator's Manual for instructions on the proper use of this equipment. Failure to follow the corresponding Operator's Manual when using our equipment or to otherwise act responsibly may result in serious injury or death. The only warranty applicable to our equipment is the standard written warranty applicable to the particular product and sale and Tadano makes no other warranty, express or implied. All rights reserved. Products and services listed may be trademarks, service marks or trade-names of Tadano Ltd.

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