

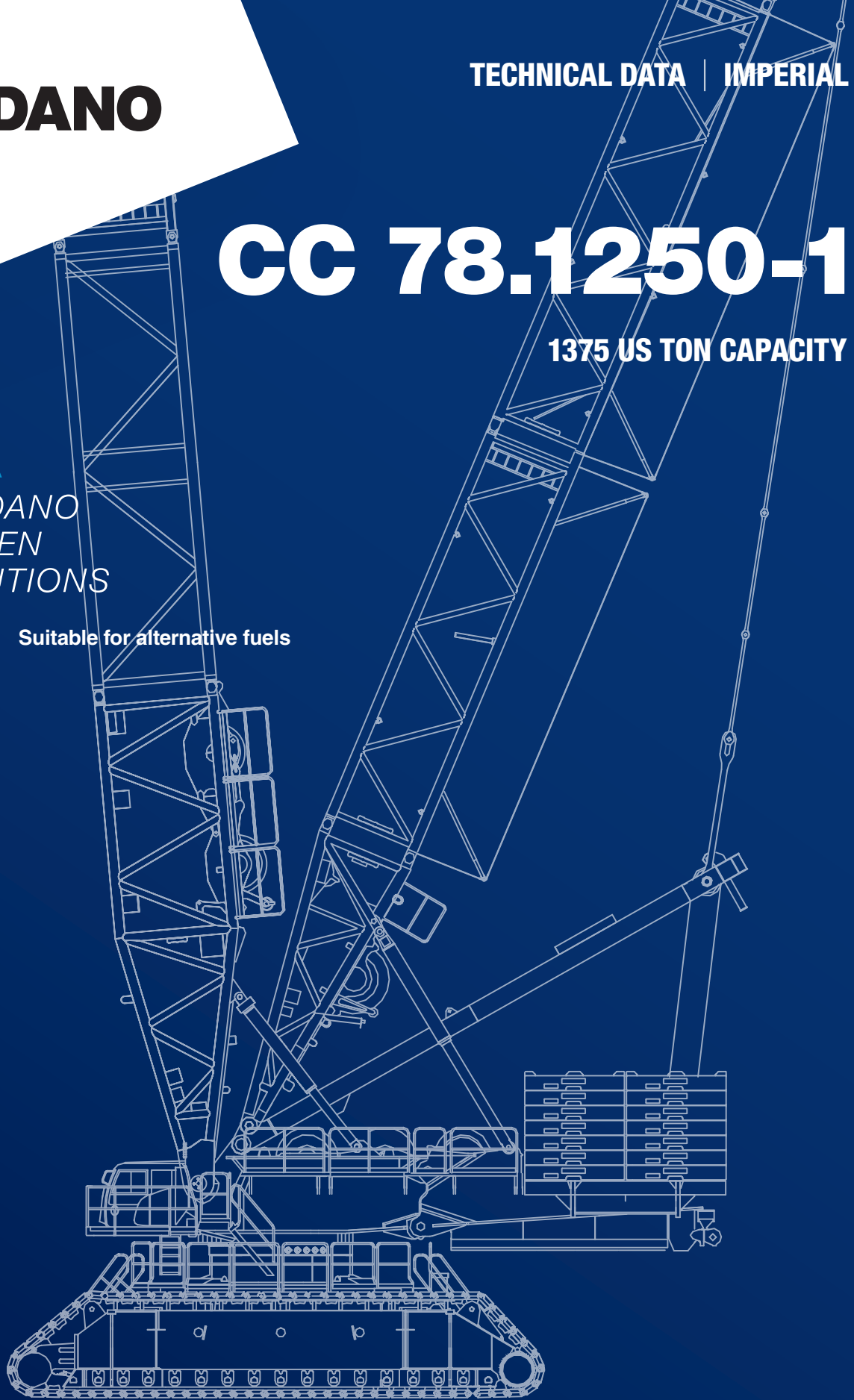
# CC 78.1250-1

1375 US TON CAPACITY



TADANO  
GREEN  
SOLUTIONS

- Suitable for alternative fuels



**PRELIMINARY**































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# Key

	Track		Hook block
	Counterweight + central ballast (ZB)		Hoist 1
	Superlift counterweight		Hoist 2
	Central ballast		Hoist 3
	Superlift radius		Jib luffing
	Possible load of hook block		Boom derricking
	Weight of hook block		Boom hoist
	Load radius		Travel speed
	Main boom		Working speeds
	Fly jib		Slewing
	Main boom angle		Max. line pull
	Fly jib angle		Rope diameter
			Rope length
			Number of lines
			Number of sheaves
			Wind speed in ft/s (feet per second)

# Key



Distance head sheave axle – hook ground

S: heavy

L: light

H/HA: Main boom

HI: Luffing jib

W: Luffing fly jib

F: Fixed fly jib

SL: Superlift

V: Vessellift

# Highlights

Excellent lifting capacities throughout all working ranges, especially with boom booster

Max. load moment 125,500 ft-kips (2,191,400 lb@59.0 ft) without boom booster /  
128,800 ft-kips (2,453,700 lb@52.5 ft) with boom booster

Max. load (without boom booster) 2,755,500 lb@32.8 ft SSL\_1 157.5 ft / 2,204,600 lb@58.7 ft SSL\_11 177.2 ft /  
max. load (with boom booster) 2,755,500 lb@45.9 ft / 2,204,600 lb@58.4 ft SSL\_21 170.6 ft

Longest boom configuration for wind mill erection 687.4 ft main boom +  
49.2 ft fixed jib with capacity of 308,600 lb

Two redundant operating drivelines (engines incl. hydraulic pumps)

Highly simplified assembly processes for short rigging times

Hydraulic quick-connection

IC-1 crane control system with touchscreen

Superlift radius infinitely variable during operation from 49.2 ft – 78.7 ft;  
59.0 ft – 98.4 ft in combination with optional Flex-Frame

Powerful Quadro-Drive as standard


Hydraulic assisted pinning of boom sections is standard

PC outrigger optional

# SPECIFICATIONS





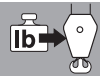



# Specifications

Working speeds (infinitely variable)				
				
	max. 387.2 ft / min	53.700 lbf	1.26"	5,085 ft
	max. 387.2 ft / min	53.700 lbf	1.26"	5,085 ft
	max. 298.6 ft / min	53.700 lbf	1.26"	2,297 ft
	max. 275.6 ft / min		1.58"	
	max. 187.0 ft / min		1.26"	
	max. 334.6 ft / min		1.26"	
	0.84 rpm			
	max. 0.62 mph			





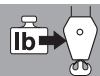

1) top layer

# Specifications









Hook block system					
					
2 x 625***	2,756,000 lb 1,433,200 lb 1,433,200 lb 716,600 lb	2 x 15 2 x 7 15 7	2 x 30 2 x 15 30 15	50,700 lb – 81,600 lb 41,900 lb – 72,800 lb 39,200 lb – 70,100 lb 34,200 lb – 65,000 lb	23.6 ft 23.6 ft 24.0 ft 24.0 ft
2 x 500**	2,205,000 lb 1,433,200 lb 1,102,500 lb 716,600 lb	2 x 11 2 x 7 11 7	2 x 23 2 x 15 23 15	44,100 lb – 75,000 lb 35,300 lb – 66,100 lb 32,600 lb – 63,500 lb 27,600 lb – 58,400 lb	21.0 ft 21.0 ft 21.3 ft 21.3 ft
2 x 325	1,433,200 lb 716,600 lb	2 x 7 7	2 x 15 15	24,300 lb – 55,100 lb 17,600 lb – 48,500 lb	18.4 ft 19.0 ft









\*\*\* 2 x 716,600 lb + Upgrade-Kit 2,756,000 lb

\*\* 2 x 716,600 lb + Upgrade-Kit 2,205,000 lb

Hook block					
					
2 x 125	551,200 lb 352,800 lb	2 x 3 3	2 x 6 7	7,100 lb – 37,900 lb 4,600 lb – 35,500 lb	15.8 ft 16.7 ft
70	154,300 lb	1	3	2,900 lb – 11,700 lb	14.1 ft
25	52,900 lb	Single line hook	1	3,700 lb	11.5 ft

# Specifications

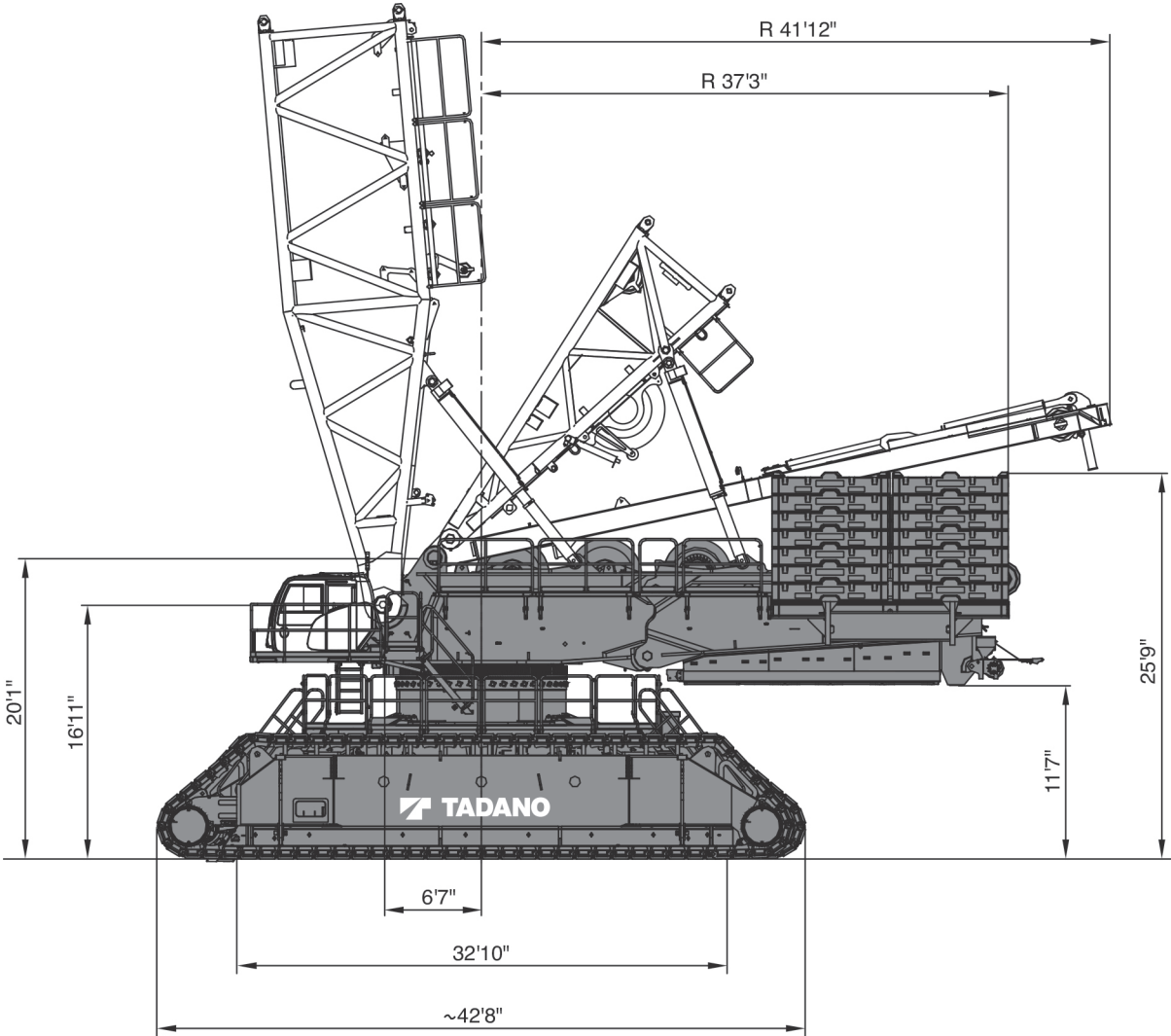
Number of lines																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	52,900 lb	105,800 lb	156,500 lb	209,500 lb	260,200 lb	310,900 lb	361,600 lb	410,100 lb	460,800 lb	509,300 lb	557,900 lb	604,200 lb	652,700 lb	699,000 lb	745,300 lb	791,600 lb
 1 x 55,120 lb	X															
 1 x 154,300 lb	X	X	X													
1 x 352,800 lb				X	X	X	X									
1 x 1,433,200 lb				X	X	X	X	X	X	X	X	X	X	X	X	X
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
	837,900 lb	882,000 lb	926,100 lb	970,200 lb	1,014,300 lb	1,058,400 lb	1,100,300 lb	1,142,200 lb	1,084,100 lb	1,226,000 lb	1,267,900 lb	1,307,600 lb	1,347,300 lb	1,387,000 lb	1,426,600 lb	
 1 x 55,120 lb																
 1 x 154,300 lb																
1 x 352,800 lb																
1 x 1,433,200 lb	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Number of lines																
	2 x 1	2 x 2	2 x 3	2 x 4	2 x 5	2 x 6	2 x 7	2 x 8	2 x 9	2 x 10	2 x 11	2 x 12	2 x 13	2 x 14	2 x 15	2 x 16
		211,600 lb	315,300 lb	419,000 lb	522,600 lb	624,000 lb	723,200 lb	822,500 lb	921,600 lb	1,018,600 lb	1,115,800 lb	1,210,500 lb	1,305,400 lb	1,400,200 lb	1,492,800 lb	1,583,200 lb
 2 x 275,600 lb			X	X	X	X*										
 2 x 716,600 lb			X	X	X	X	X	X	X	X	X	X	X	X	X	
2 x 1,102,500 lb				X	X	X	X	X	X	X	X	X	X	X	X	X
2 x 1,378,100 lb				X	X	X	X	X	X	X	X	X	X	X	X	X
	2 x 17	2 x 18	2 x 19	2 x 20	2 x 21	2 x 22	2 x 23	2 x 24	2 x 25	2 x 26	2 x 27	2 x 28	2 x 29	2 x 30		
	1,675,800 lb	1,764,000 lb	1,854,400 lb	1,942,600 lb	2,028,600 lb	2,116,800 lb	2,200,600 lb	2,286,600 lb	2,370,400 lb	2,452,000 lb	2,535,800 lb	2,617,300 lb	2,696,700 lb	2,756,200 lb		
 2 x 275,600 lb																
 2 x 716,600 lb																
2 x 1,102,500 lb	X	X	X	X	X	X	X									
2 x 1,378,100 lb	X	X	X	X	X	X	X	X	X	X	X	X	X	X		

\* 551,200 lb

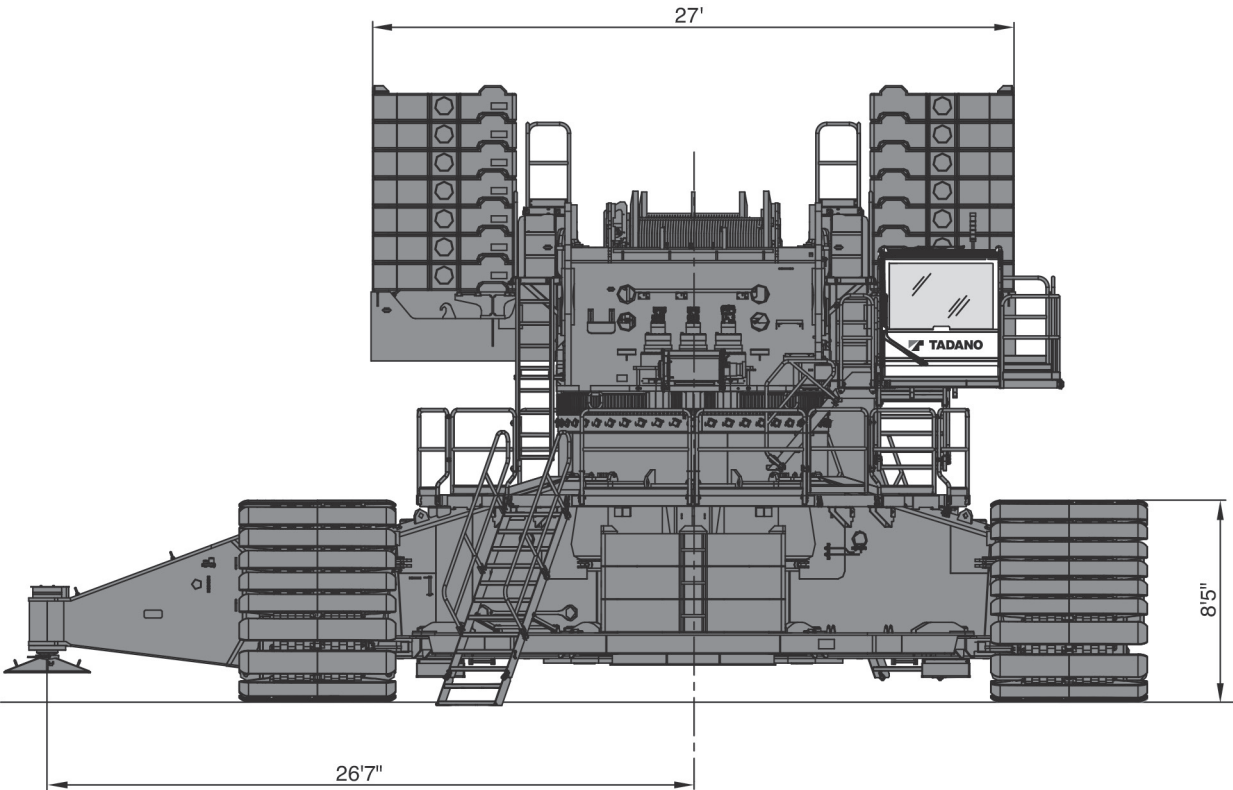
# Specifications

## Basic crane dimensions



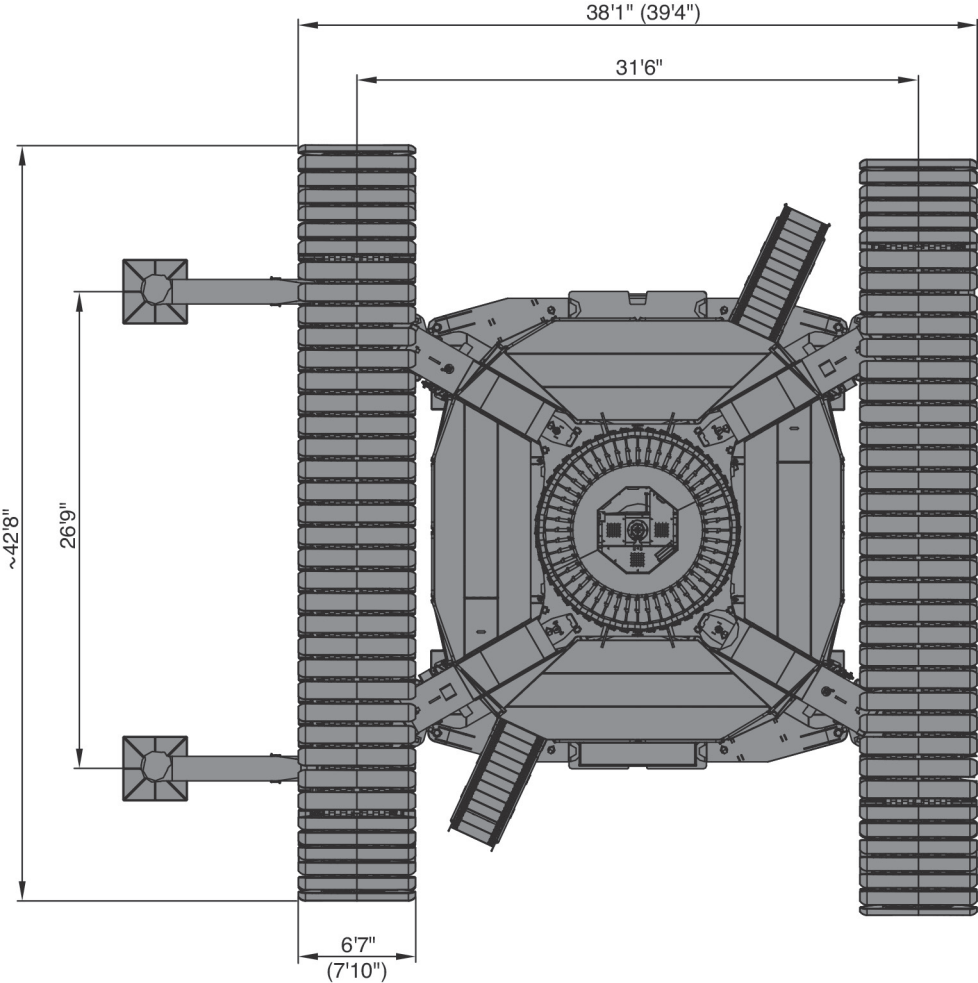
# Specifications

## Basic crane dimensions



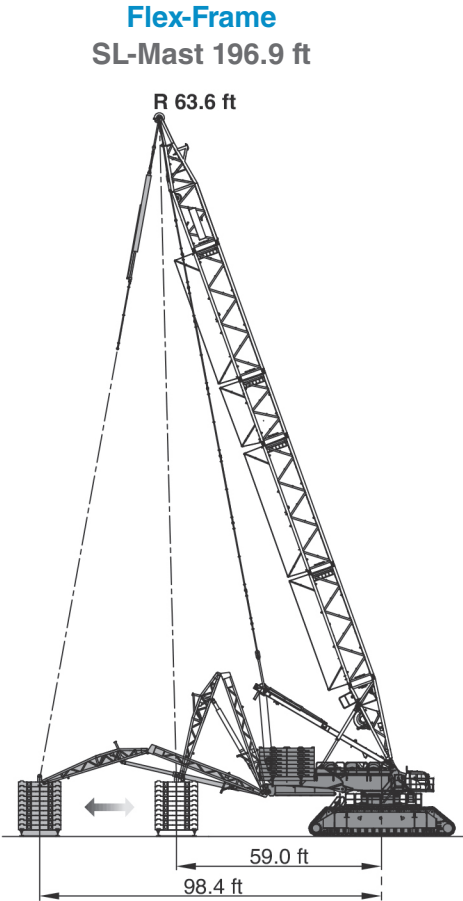
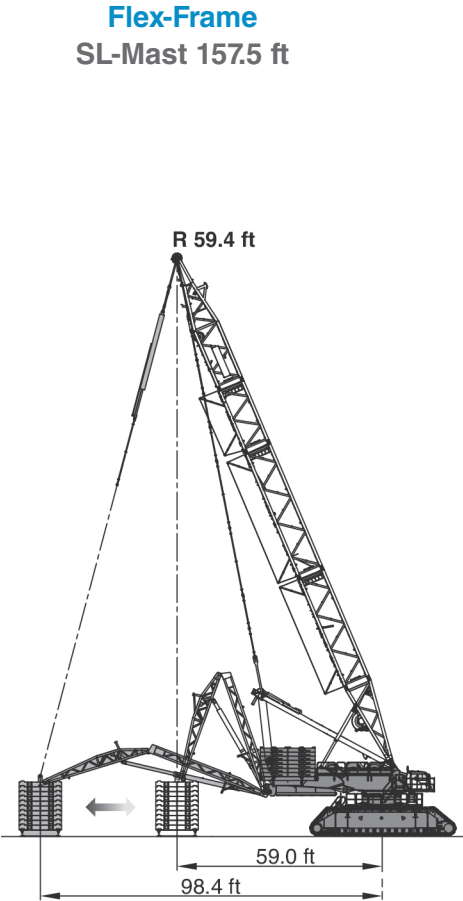
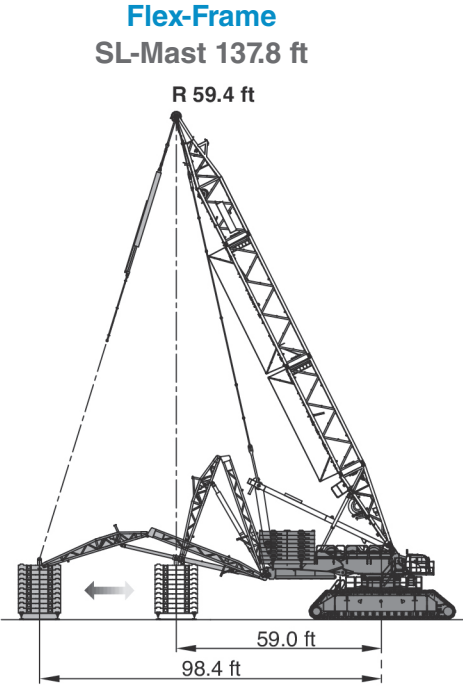
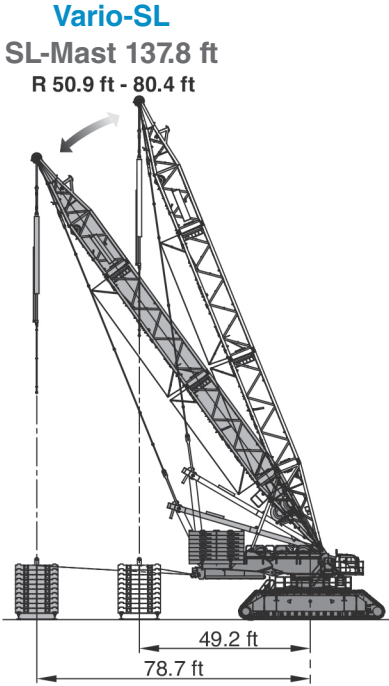
# Specifications

## Basic crane dimensions



# Specifications

## Superlift Configurations

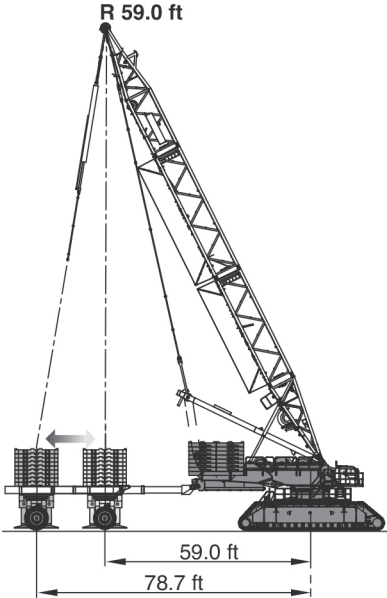


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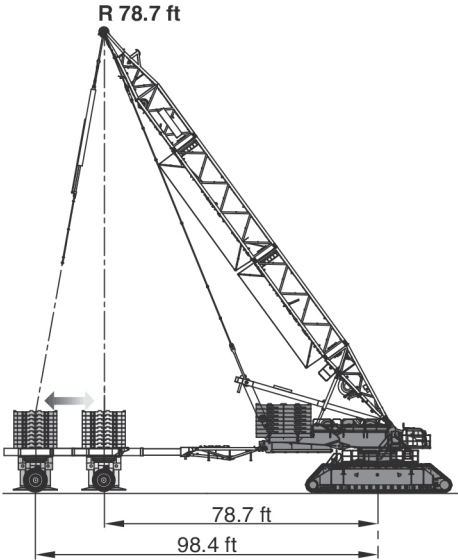
## Superlift Configurations

### SL Carrier

SL-Mast 137.8 ft

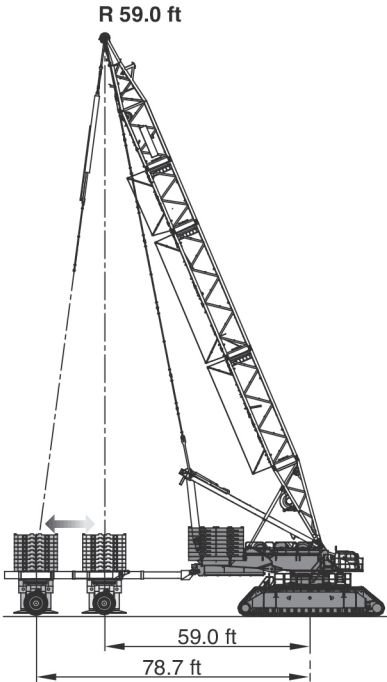


SL-Mast 137.8 ft

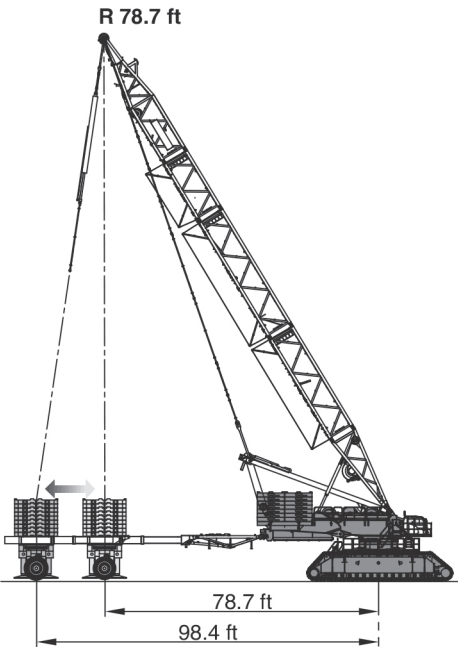


### SL Carrier

SL-Mast 157.5 ft



SL-Mast 157.5 ft

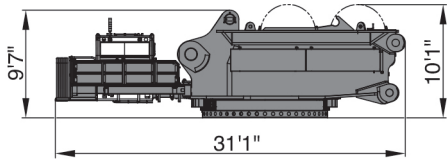


Alternatively, the telescope connector may be used in combination with the Superlift Tray

# Specifications

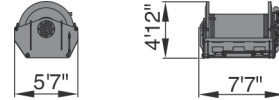
## Transportation

1.



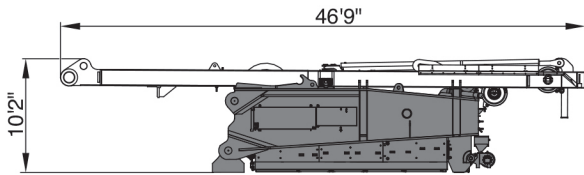
88,200 lb .. 143,300 lb / 31.1 x 11.5 x 9.6 ft .. 10.1 ft

5.



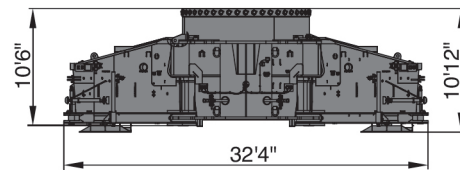
27,600 lb / 5.6 x 7.6 x 4.9 ft

2.



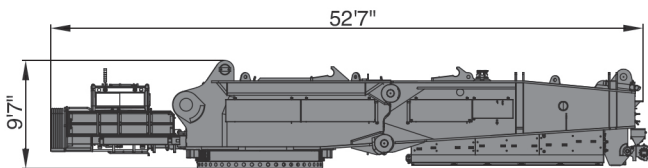
112,500 lb / 46.8 x 11.5 x 10.2 ft

6.



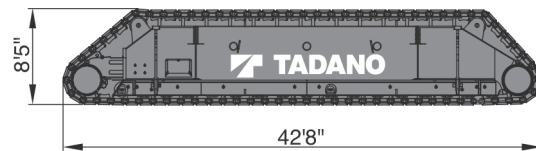
121,700 lb / 32.4 x 11.5 x 10.5 ft (11.0 ft)

3.



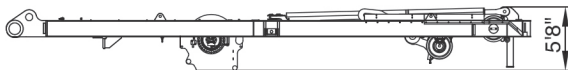
149,300 lb / 52.6 x 11.5 x 9.6 ft

7.



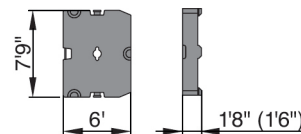
131,900 lb / 42.7 x 6.8 x 8.4 ft (6.6 ft)  
143,800 lb / 42.7 x 7.9 x 8.4 ft (7.9 ft)

4.



53,400 lb / 46.8 x 10.1 x 5.6 ft

8.



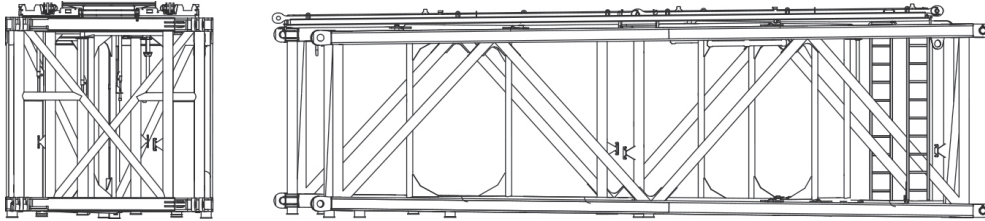
22,000 lb / 6.0 x 7.7 x 1.7 ft\* (1.5 ft\*\*)  
16,500 lb / 6.0 x 7.7 x 1.5 ft\* (1.2 ft\*\*)

For explanations see page 18

# Specifications

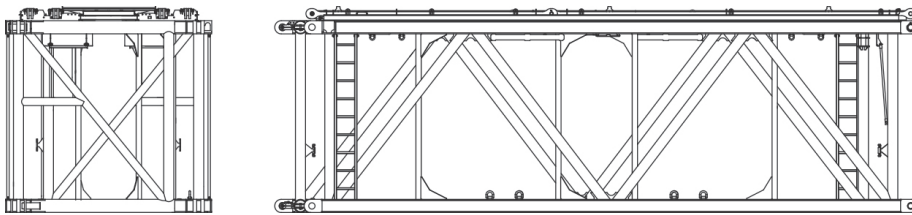
## Transport Adapter / Section

9a.



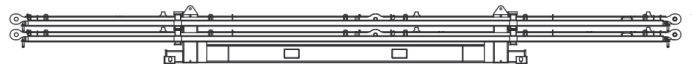
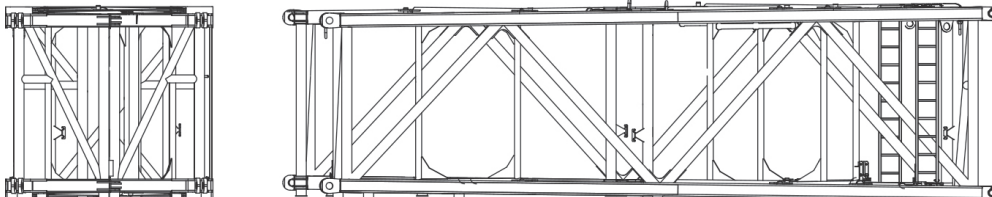
39,900 lb / 54,700 lb / 39.4 x 11.4 x 11.8 ft

10a.



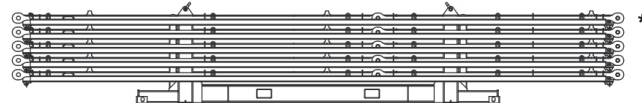
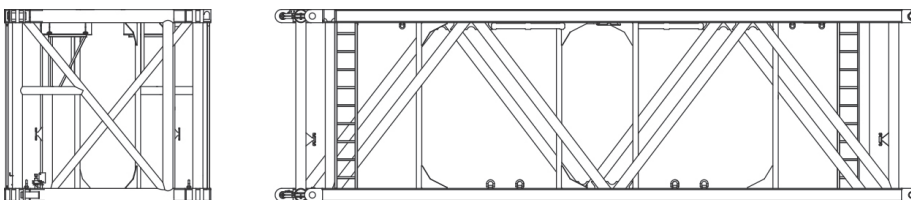
26,500 lb – 33,300 lb / 35.3 x 11.4 x 11.3 ft

9b.



33,700 lb / 48,700 lb /  
39.4 x 11.4 x 10.6 ft  
\*14,800 lb / 36.7 x 9.8 x 3.1 ft

10b.



22,900 lb – 27,800 lb /  
35.3 x 11.4 x 10.5 ft  
\*30,900 lb / 33.5 x 9.8 x 5.3 ft

For explanations see page 18

# Specifications

## Transportation

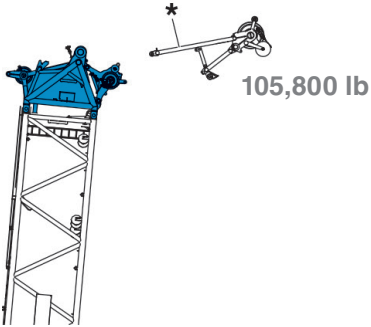
1. Superstructure front part
2. Superstructure rear part with winch E and sheave set
3. Superstructure without winch E and sheave set
4. A-frame with winch E and sheave set
5. Winches H1 and H2
6. Carbody center part with outriggers
7. Crawlers with pads 6.6 ft / 7.9 ft
8. Counterweight slab
  - \* Steel box
  - \*\* Cast box
- 9a. Adapters
  - Frames with catwalks and pendant bars on top
- 10a. Sections
  - Frames with catwalks and pendant bars on top
- 9b. Adapters
  - Frames with catwalks and pendant bars separately
- 10b. Sections
  - Frames with catwalks and pendant bars separately

# Specifications

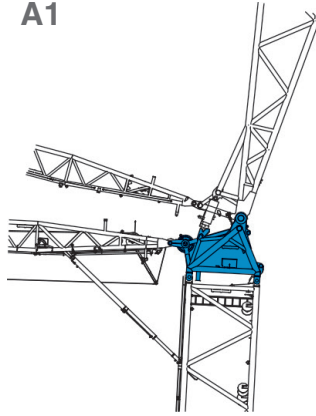
## Boom heads

**A**

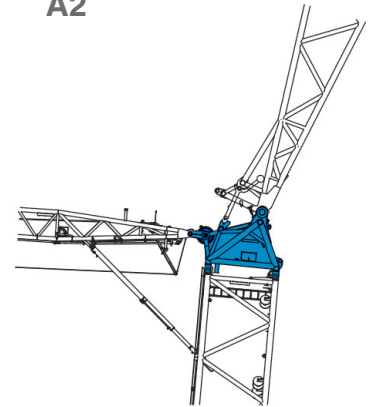
(max. 2,756,000 lb)



**A1**

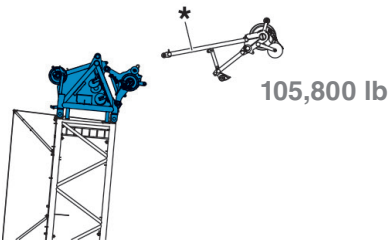


**A2**

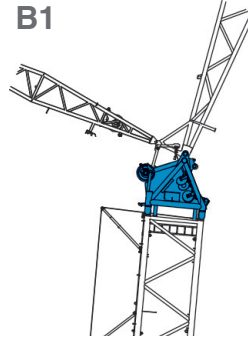


**B**

(max. 1,433,200 lb)

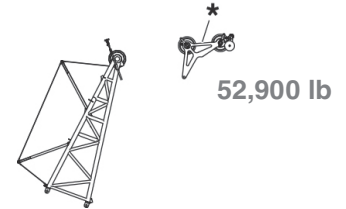


**B1**



**C**

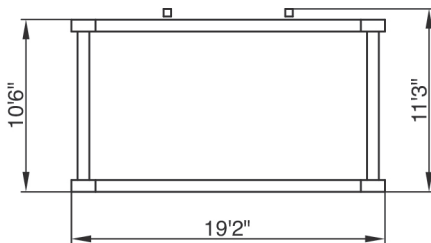
(max. 551,200 lb)



\* Attachable

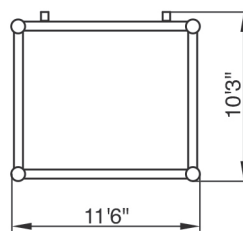
## Transportation

**Boom Booster (BB)**



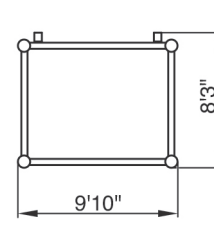
Type 5430A

**Main Boom (HA)**



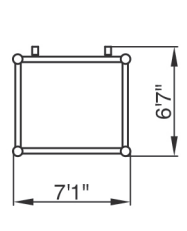
Type 3328A

**Jib (HI)**







Type 2822A

**LF2**



Type 2017A

# Specifications





Erection / lowering of the boom systems to the ground																	
																	
	ft	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
SH_1		X	X	X	X	X	X	X	[X]	[X]	[X]	[X]	-	-	-	-	-
SW_1	*																
LH_1		-	X	X	X	X	X	X	X	X	X	[X]	[X]	[X]	[X]	-	-
LH_2		-	-	-	-	-	X	X	X	X	X	[X]	[X]	[X]	[X]	[X]	-
LH_4		X	X	X	X	X	X	X	X	X	X	X	X	[X]	[X]	[X]	[X]
LH_7		-	-	-	-	-	X	X	X	X	X	[X]	[X]	[X]	[X]	-	-
LH+LF_1	*																
LH+LF_2	49.2	-	-	-	-	-	X	X	X	X	X	[X]	[X]	[X]	-	-	-
 15°, 20°, 30°	59.0	-	-	-	-	-	X	X	X	X	[X]	[X]	[X]	[X]	-	-	-
	68.9	-	-	-	-	-	X	X	X	X	[X]	[X]	[X]	[X]	-	-	-
	78.7	-	-	-	-	-	X	X	X	X	[X]	[X]	[X]	[X]	-	-	-
	88.6	-	-	-	-	-	X	X	X	[X]	[X]	[X]	[X]	[X]	-	-	-
	98.4	-	-	-	-	-	X	X	X	[X]	[X]	[X]	[X]	[X]	-	-	-
	108.3	-	-	-	-	-	X	X	X	[X]	[X]	[X]	[X]	[X]	-	-	-
	118.1	-	-	-	-	-	X	X	X	[X]	[X]	[X]	[X]	[X]	-	-	-
	128.0	-	-	-	-	-	X	X	X	[X]	[X]	[X]	[X]	[X]	-	-	-
137.8	-	-	-	-	-	X	X	[X]	[X]	[X]	[X]	[X]	-	-	-	-	
LH+LF_7	49.2	-	-	-	-	-	X	X	X	X	[X]	[X]	[X]	-	-	-	
 15°, 20°	59.0	-	-	-	-	-	X	X	X	X	[X]	[X]	[X]	-	-	-	
	68.9	-	-	-	-	-	X	X	X	[X]	[X]	[X]	[X]	-	-	-	
	78.7	-	-	-	-	-	X	X	X	[X]	[X]	[X]	[X]	-	-	-	
	88.6	-	-	-	-	-	X	X	X	[X]	[X]	[X]	[X]	-	-	-	
	98.4	-	-	-	-	-	X	X	X	[X]	[X]	[X]	-	-	-	-	
	108.3	-	-	-	-	-	X	X	X	[X]	[X]	[X]	-	-	-	-	
	118.1	-	-	-	-	-	X	X	[X]	[X]	[X]	[X]	-	-	-	-	
	128.0	-	-	-	-	-	X	X	[X]	[X]	[X]	[X]	-	-	-	-	
137.8	-	-	-	-	-	X	X	[X]	[X]	[X]	[X]	-	-	-	-		
	ft	150.9	170.6	190.3	210.0	223.1	242.8	255.9	275.6	288.7							
SH_2		X	X	X	X	X	[X]	[X]	[X]	[X]							
SW_2	*																
	ft	190.3	210.0	229.7	249.4	262.5	282.2	295.3	315.0								
LH_5				X	X	X	X	X	[X]	[X]	[X]						
	ft	210.0	229.7	249.4	269.0	288.7	308.4	328.1	347.8	367.5	387.2						
LH_6					X	X	X	X	X	X	[X]	[X]	[X]	[X]			
LH+LF_6	*																

X without assisting equipment

[X] with rigging aid






\* in preparation

# Specifications

Erection / lowering of the boom systems to the ground																									
																									
	ft	ft	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									
SSL_1	137.8		-	-	V	V	V	V	V	V	V	V	V	V	V	V									
SSL_11	157.5		-	-	-	F	F	F	F	F	F	F	F	F	F	F									
SWSL_1, SFSL_1	*																								
LVSL_1	*																								
LSL_1	*																								
LSL_11	*																								
LSL_5	*																								
LSL_51	*																								
LSL+LF_1	*																								
LSL+LF_5	*																								
			ft																						
			150.9	170.6	190.3	210.0	223.1	242.8	255.9	275.6	288.7	308.4	321.5	341.2	354.3	374.0									
SSL_2	137.8		V	V	V	V	V	V	V	V	V	V	V	V	V	V									
SSL_21	157.5		-	F	F	F	F	F	F	F	F	F	F	F	F	F									
SWSL_2, SFSL_2	137.8	118.1	V	V	V	V	V	V	V	V	V	V	V	-	-	-									
		137.8	V	V	V	V	V	V	V	V	V	V	V	V	V	-									
		157.5	V	V	V	V	V	V	V	V	V	V	V	V	V	F									
		177.2	V	V	V	V	V	V	V	V	V	V	V	V	V	F									
		196.9	V	V	V	V	V	V	V	V	V	V	V	V	V	F									
		216.5	V	V	V	V	V	V	V	V	V	V	V	V	V	F									
		236.2	V	V	V	V	V	V	V	V	V	V	V	V	V	F									
		255.9	V	V	V	V	V	V	V	V	V	V	V	V	V	F									
		275.6	V	V	V	V	V	V	V	V	V	V	V	V	V	F									
		295.3	V	V	V	V	V	V	V	V	V	V	V	V	V	F									
		315.0	V	V	V	V	V	V	V	V	V	V	V	V	V	F									
334.6	V	V	V	V	V	V	V	V	V	V	V	V	V	F											
354.3	V	V	V	V	V	V	V	V	V	V	V	V	V	F											
374.0	V	V	V	V	V	V	V	V	V	V	V	V	V	F											
LVSL_2	137.8	59.0	V	V	V	V	V	V	V	V	V	V	V	V	V	V									
			ft																						
			190.3	210.0	229.7	249.3	262.5	282.2	295.3	315.0	328.1	347.8	360.9	380.6	393.7	413.4	433.1	452.8	472.4	492.1	511.8	531.5	551.2		
LSL_2	137.8		V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
LSL_21	157.5		F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
LSL+LF_2	*																								
			ft																						
LSL_4	196.9									503.6	523.3	536.4	556.1	569.2	588.9	602.0	621.7	634.8	654.5	667.7	687.3				
LSL+LF_4  15° / 20°	196.9	49.2								F	F	F	F	F	F	[F]	[F]	[F]	[F]	[F]	[F]	[F]	[F]	[F]	
		59.0								F	F	F	F	F	F	[F]	[F]	[F]	[F]	[F]	[F]	[F]	[F]	[F]	-
		68.9								F	F	F	F	F	F	[F]	[F]	[F]	[F]	[F]	[F]	[F]	[F]	[F]	-
		78.7								F	F	F	F	F	F	[F]	[F]	[F]	[F]	[F]	[F]	[F]	[F]	[F]	-
		88.6								F	F	F	F	F	F	[F]	[F]	[F]	[F]	[F]	[F]	[F]	[F]	[F]	-
		98.4								F	F	F	F	F	F	[F]	[F]	[F]	[F]	[F]	[F]	[F]	[F]	[F]	-
		108.3								F	F	F	F	F	F	[F]	[F]	[F]	[F]	[F]	[F]	[F]	[F]	[F]	-
		118.1								F	F	F	F	F	F	[F]	[F]	[F]	[F]	[F]	[F]	[F]	[F]	[F]	-
		128.0								F	F	F	F	F	F	[F]	[F]	[F]	[F]	[F]	[F]	[F]	[F]	[F]	-
137.8								F	F	F	F	F	F	[F]	[F]	[F]	[F]	[F]	[F]	[F]	[F]	[F]	[F]	-	

For explanations see page 22

# Specifications

Erection / lowering of the boom systems to the ground																												
																												
	ft	ft	ft																									
			293.6	306.8	326.4	339.6	359.3	372.4	392.1	405.2	424.9	438.0	457.7	470.8	490.5	503.6	523.3	536.4	556.1	575.8	595.5							
<b>LSL_6</b>	157.5		F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F							
<b>LSL+LF_6</b>  15° / 20°	157.5	49.2	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F							
		59.0	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F						
		68.9	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F						
		78.7	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F						
		88.6	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F						
		98.4	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F						
		108.3	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	-						
		118.1	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	-						
		128.0	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	-						
	137.8	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	-							
			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	472.4	492.1	511.8	531.5	551.2	570.9	590.6
<b>SSL_3</b>		*																										
<b>SSL_31</b>		*																										
<b>SWSL_3, SFSL_3</b>		*																										
<b>LVSL_3</b>		*																										
			ft	236.2	255.9	275.6	295.3	315.0	334.6	354.3	374.0	393.7	413.4	433.1	452.8	472.4	492.1	511.8	531.5	551.2	570.9	590.6						
<b>LSL_7</b>	157.5		F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F							
<b>LSL+LF_7</b>  15° / 20°	157.5	49.2	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F							
		59.0	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F						
		68.9	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F						
		78.7	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F						
		88.6	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F						
		98.4	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F						
		108.3	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F						
		118.1	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F						
		128.0	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F						
	137.8	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F							

V with Vario Superlift

F with flex frame + Superlift counterweight ≤ 1,191,000 lb

[F] with flex frame + Superlift counterweight 1,191,000 lb .. 1,764,000 lb

\* in preparation

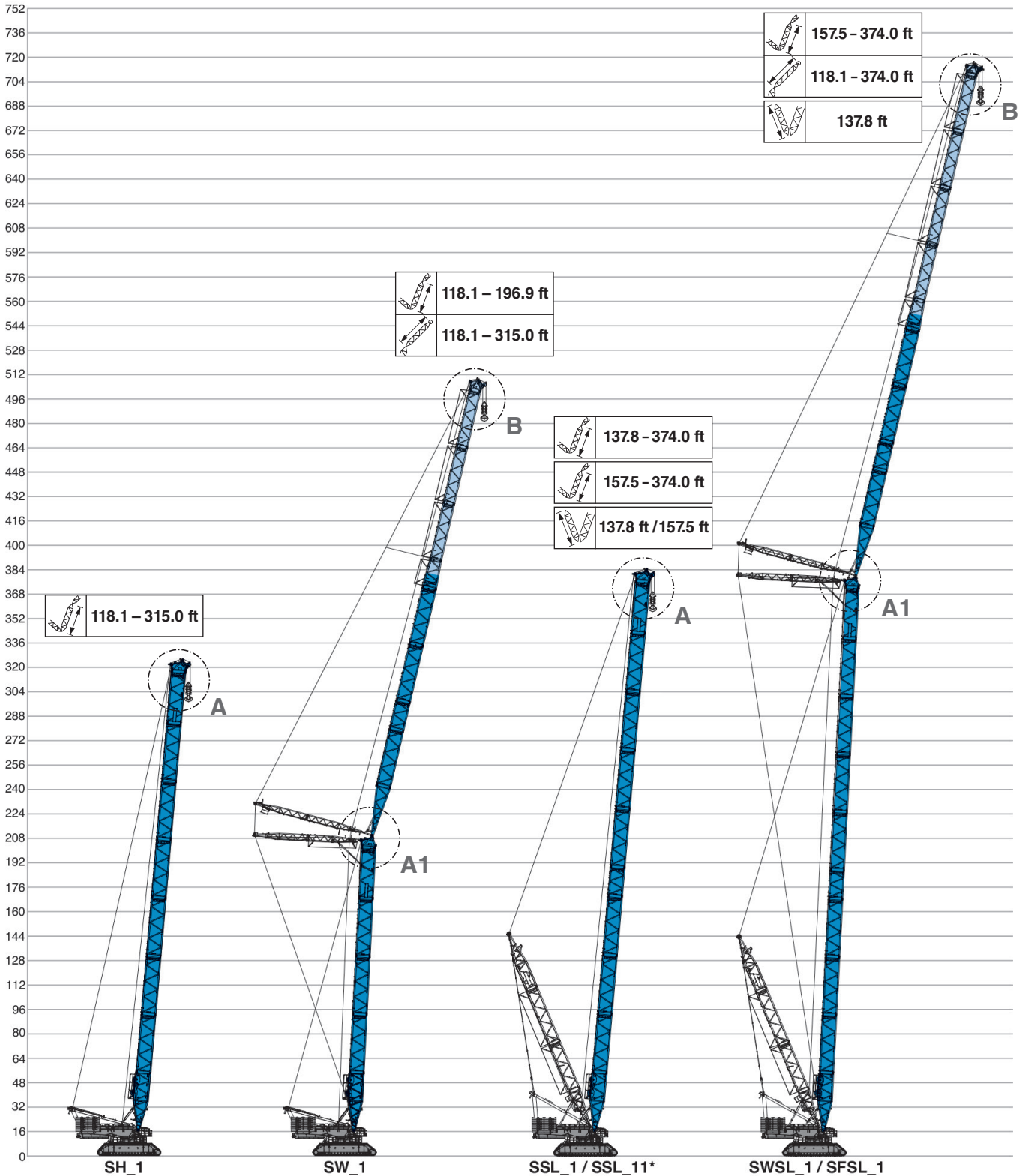


# Specifications

## Boom Combinations

Type 3328A

Type 2822A

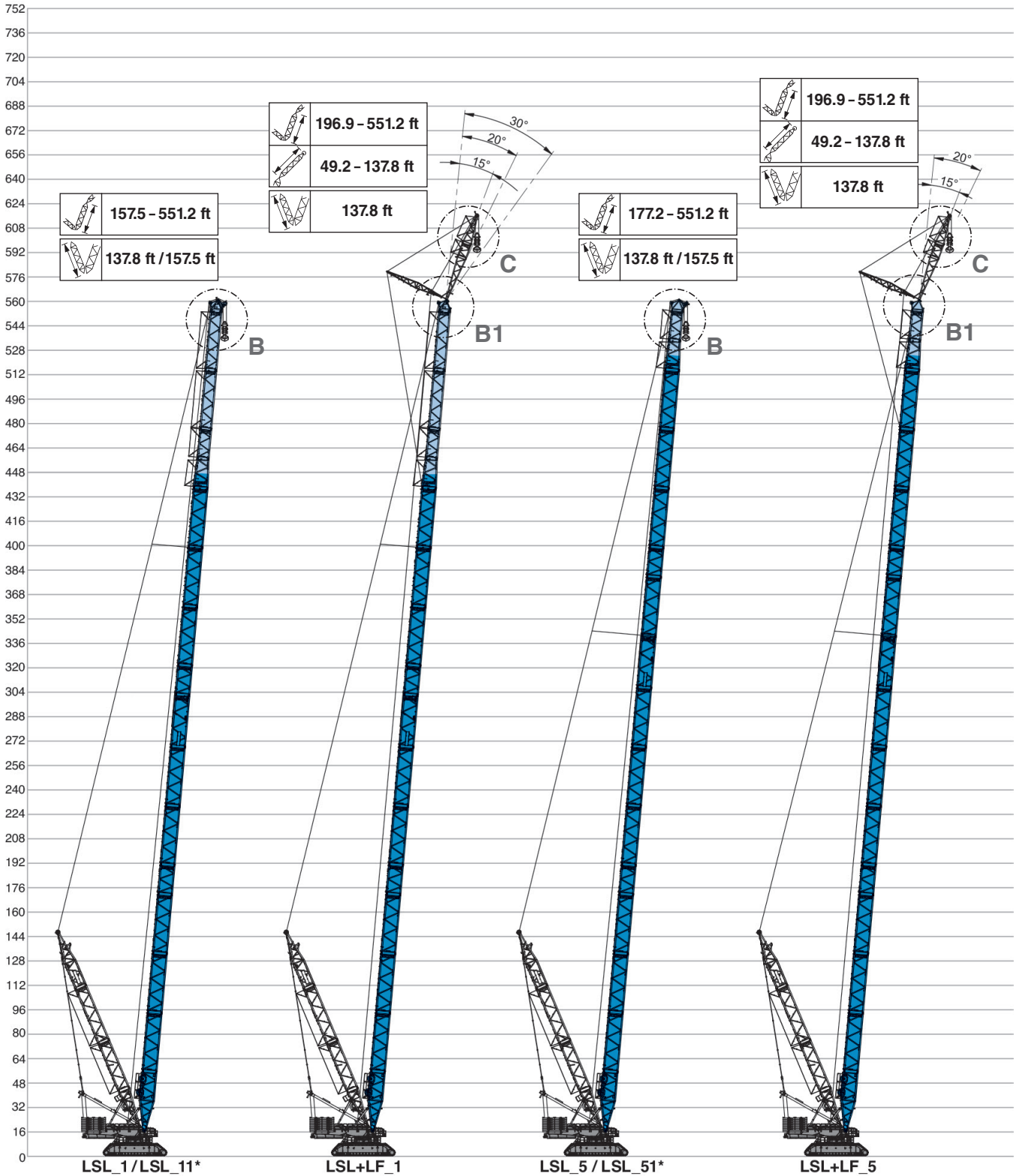


For explanations see page 34

# Specifications

## Boom Combinations

Type 3328A    Type 2822A    Type 2017A

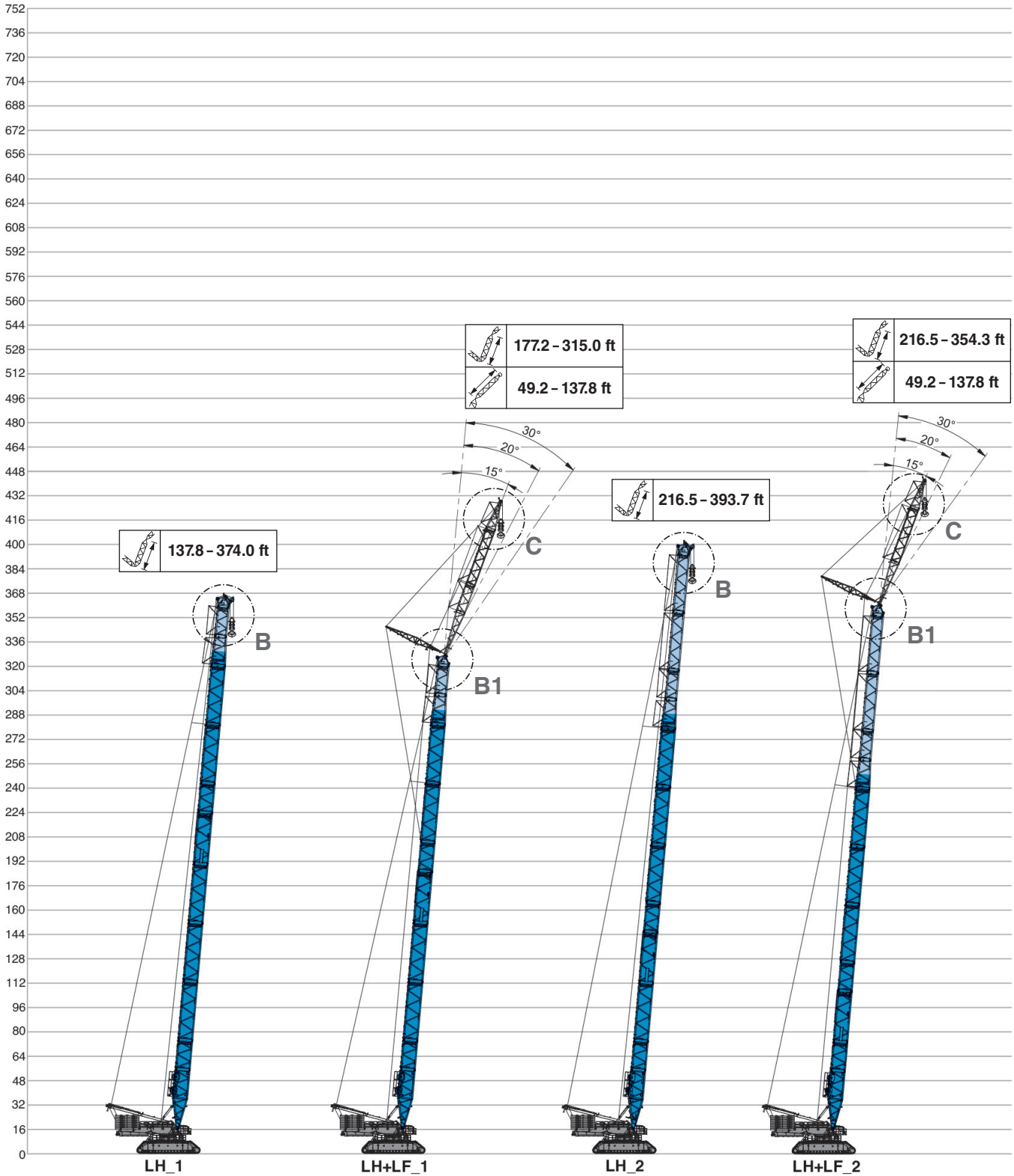


For explanations see page 34

# Specifications

## Boom Combinations

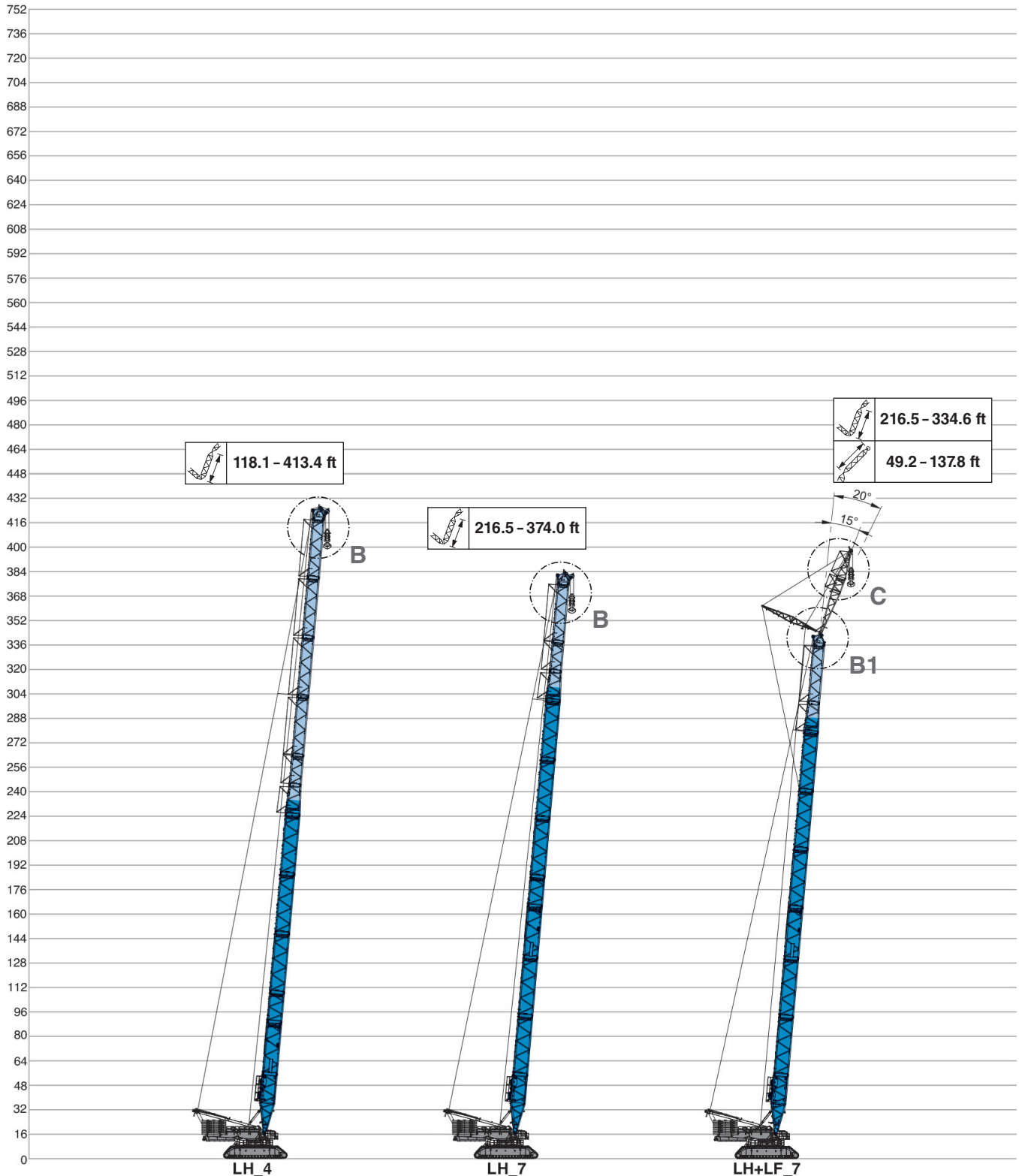
Type 3328A    Type 2822A    Type 2017A    Type 5430A



# Specifications

## Boom Combinations

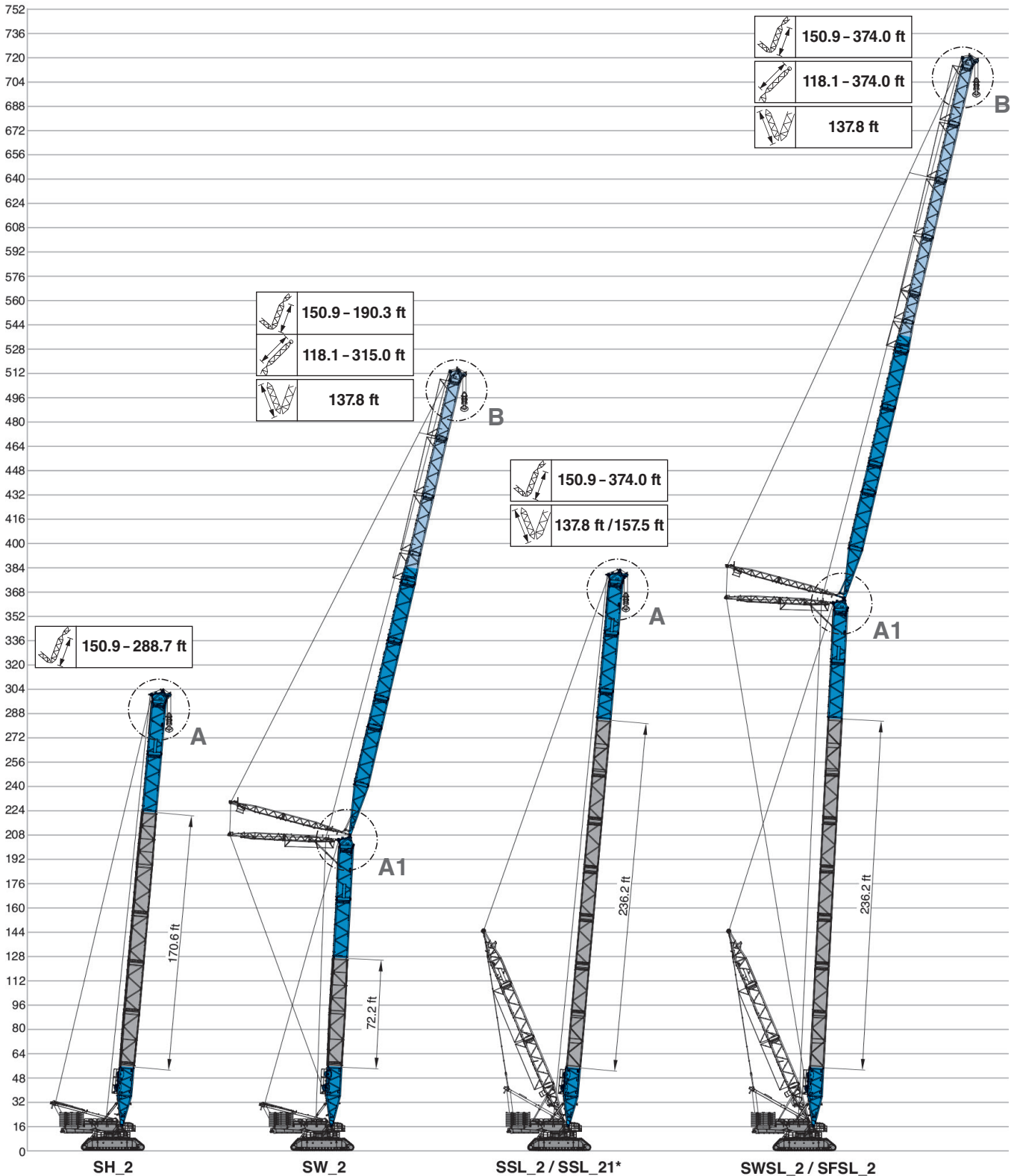
Type 3328A    Type 2822A    Type 2017A    Type 5430A



# Specifications

## Boom Combinations

Type 3328A    Type 2822A    Type 2017A    Type 5430A

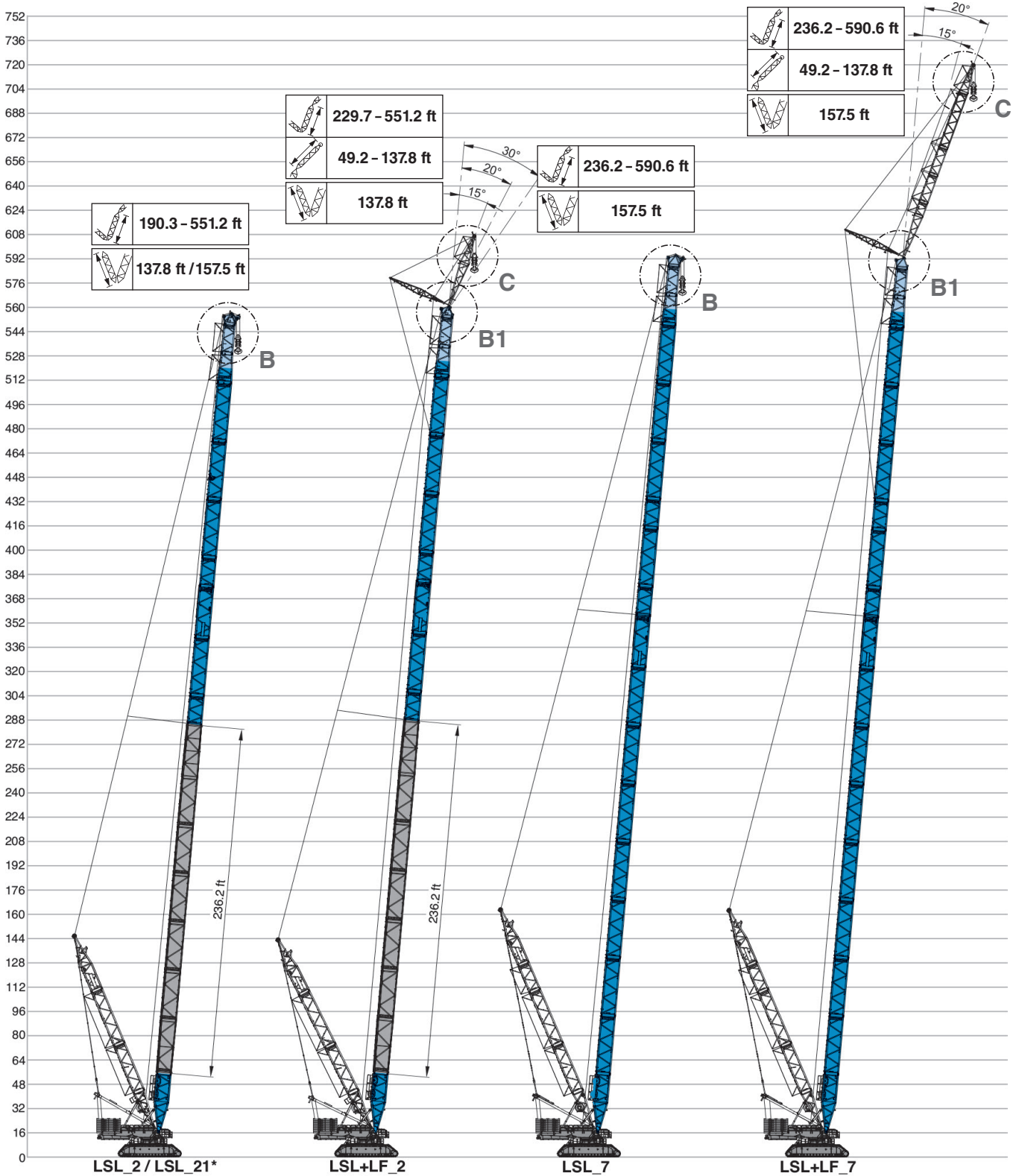


For explanations see page 34

# Specifications

## Boom Combinations

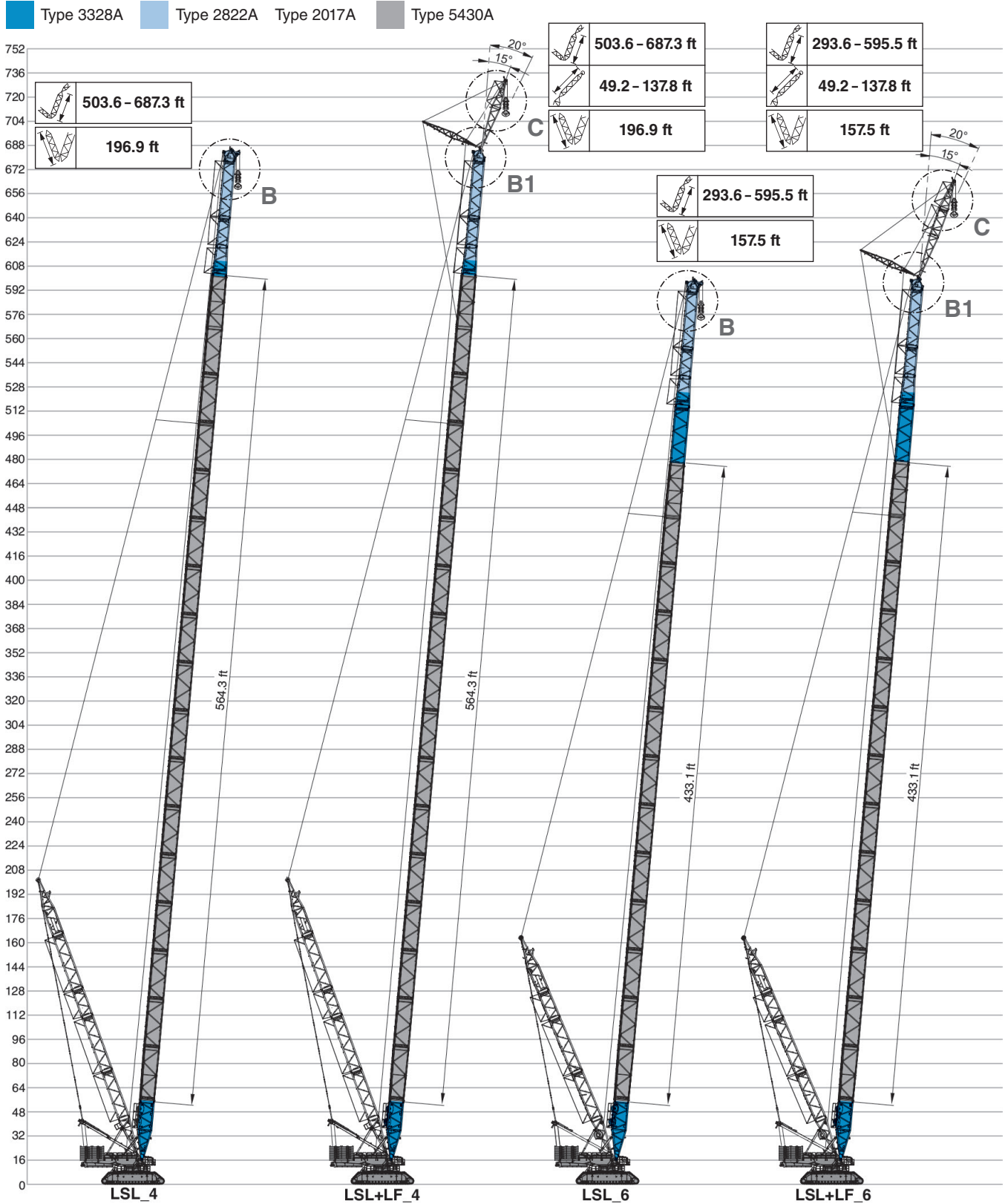
Type 3328A    Type 2822A    Type 2017A    Type 5430A



For explanations see page 34

# Specifications

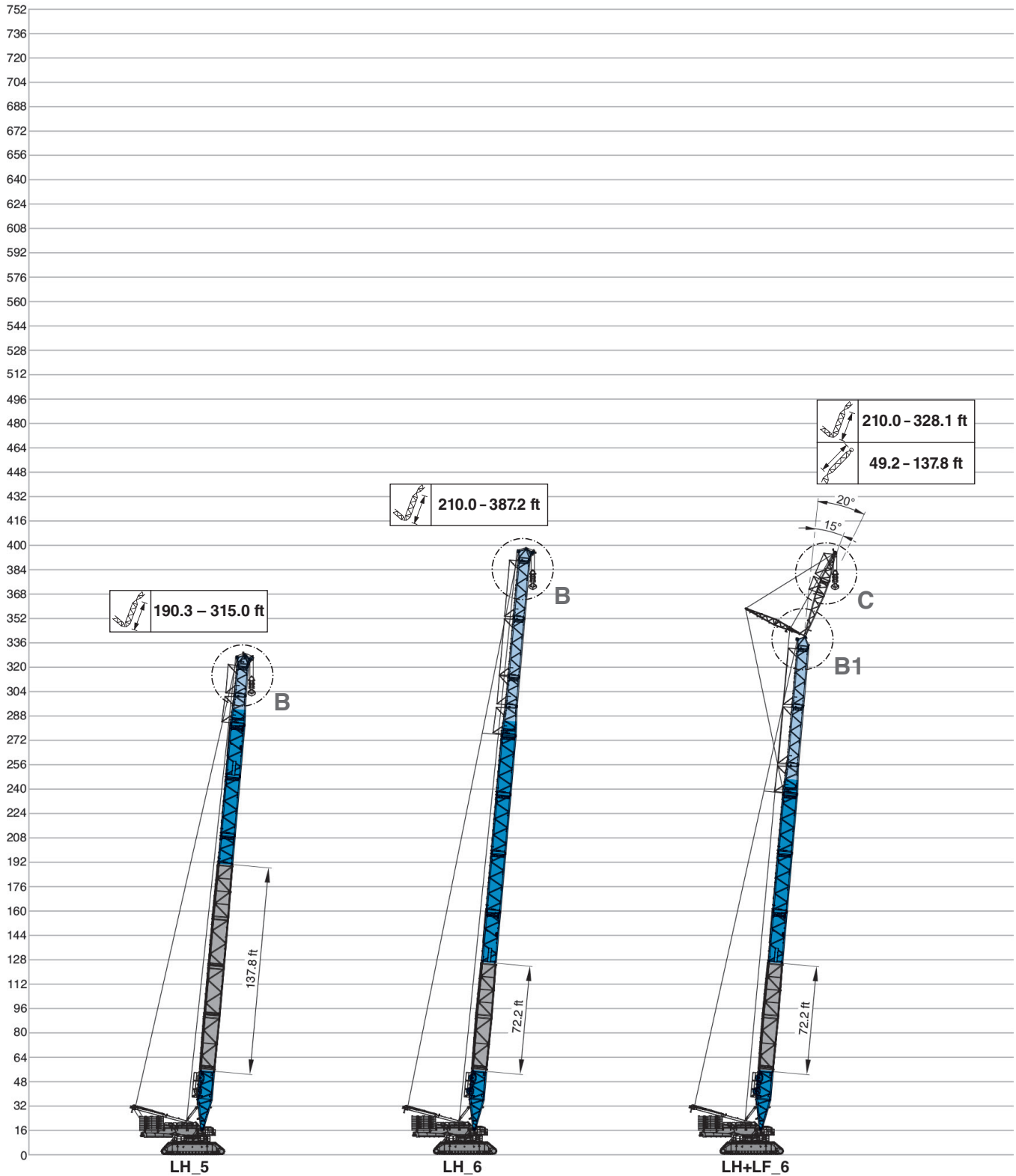
## Boom Combinations



# Specifications

## Boom Combinations

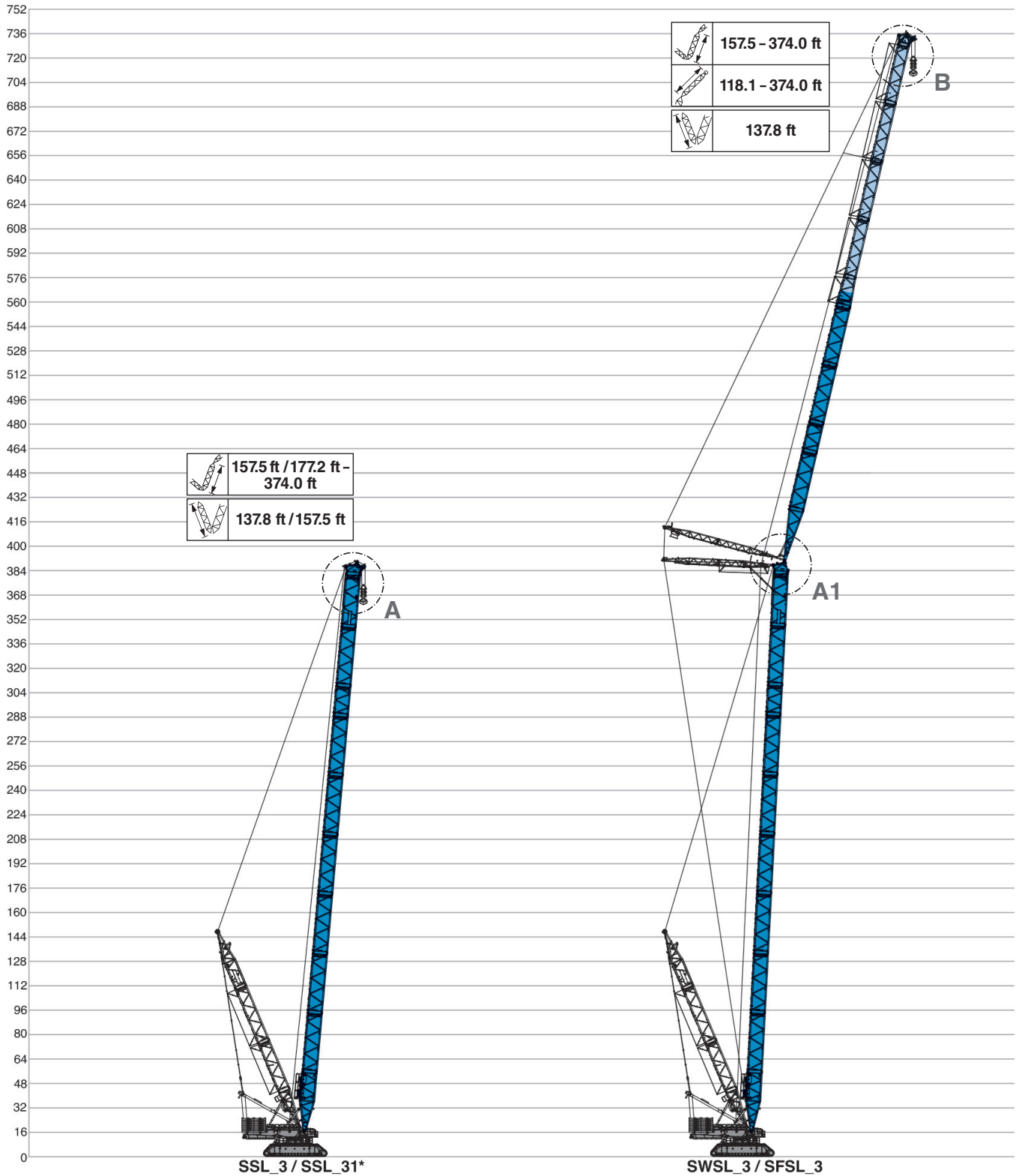
Type 3328A    Type 2822A    Type 2017A    Type 5430A



# Specifications

## Boom Combinations

Type 3328A    Type 2822A    Type 2017A    Type 5430A

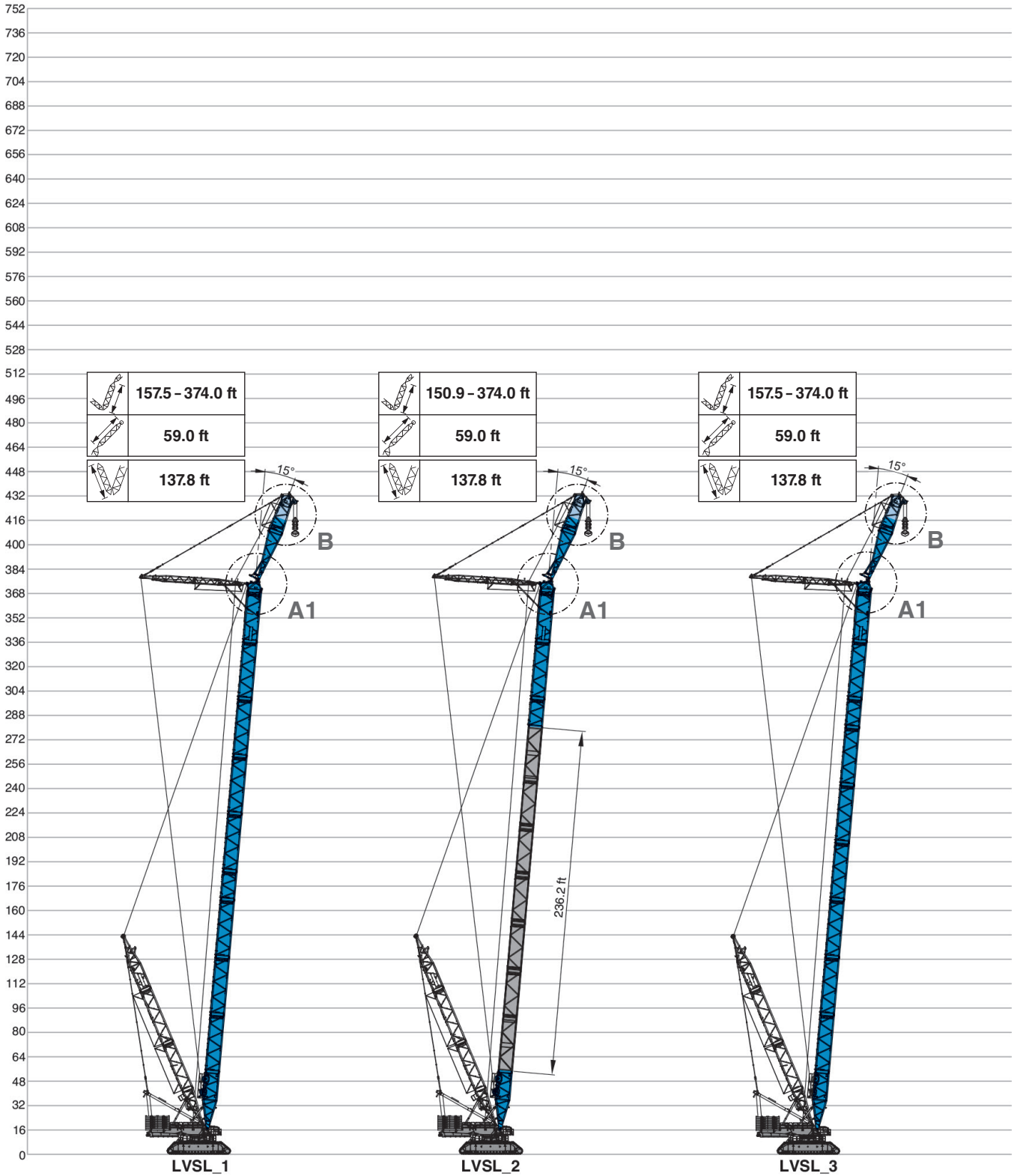


For explanations see page 34

# Specifications

## Boom Combinations

Type 3328A    Type 2822A    Type 2017A    Type 5430A



# Specifications

## Boom Combinations

Page 24-25, 28-29, 32:

\* **SSL\_1, LSL\_1, LSL\_5, SSL\_2, SSL\_3, LSL\_2:**

Mast 137.8 ft with max. SL-Ballast 1,191,000 lb@78.7 ft / 992,300 lb@98.4 ft

\* **SSL\_11, LSL\_11, LSL\_51, SSL\_21, SSL\_31, LSL\_21:**

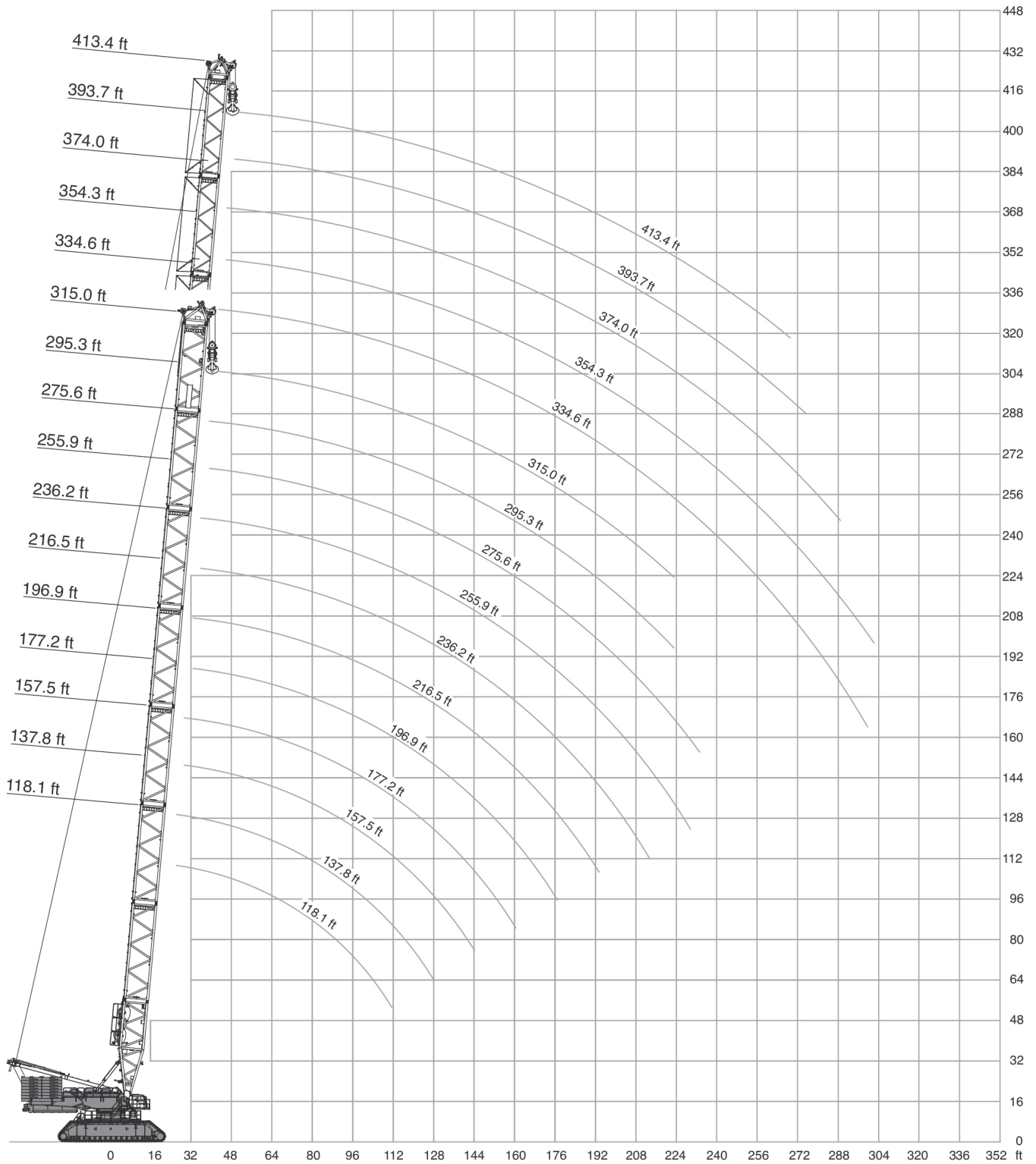
Mast 157.5 ft with max. SL-Ballast 1,191,000 lb@98.4 ft

# MAIN BOOM



# Operation

SH, LH



# Operation

SH\_1

+ <b>31.5 ft</b> <b>32.2 ft/s</b> <b>360°</b> <b>ASME B30.5</b>												
<b>118.1 ft</b> <b>137.8 ft</b> <b>157.5 ft</b> <b>177.2 ft</b> <b>196.9 ft</b> <b>216.5 ft</b> <b>236.2 ft</b> <b>255.9 ft</b> <b>275.6 ft</b> <b>295.3 ft</b> <b>315.0 ft</b>												
ft	1,000 lb											ft
26.2	1776.9	1768.1	-	-	-	-	-	-	-	-	-	26.2
29.5	1582.9	1574.1	1536.6	1448.4	-	-	-	-	-	-	-	29.5
32.8	1397.7	1388.9	1349.2	1278.7	1214.7	1155.2	-	-	-	-	-	32.8
36.1	1263.2	1254.4	1214.7	1155.2	1100.1	1048.3	992.1	948.0	-	-	-	36.1
39.4	1128.8	1119.9	1080.3	1031.8	985.5	941.4	901.7	864.2	826.7	791.5	-	39.4
42.7	1035.1	1026.3	987.7	944.7	905.0	866.4	831.1	797.0	763.9	731.9	705.5	42.7
45.9	941.4	932.6	895.1	857.6	824.5	791.5	760.6	729.7	701.1	672.4	652.6	45.9
52.5	762.8	758.4	756.2	731.9	703.3	676.8	652.6	626.1	604.1	579.8	564.4	52.5
59.1	632.7	628.3	626.1	621.7	610.7	588.6	566.6	544.5	526.9	504.9	493.8	59.1
65.6	537.9	531.3	529.1	524.7	524.7	518.1	500.4	480.6	463.0	445.3	436.5	65.6
72.2	465.2	458.6	456.4	451.9	449.7	445.3	443.1	427.7	412.3	394.6	388.0	72.2
78.7	407.9	401.2	399.0	394.6	392.4	388.0	385.8	379.2	368.2	352.7	346.1	78.7
85.3	361.6	354.9	352.7	348.3	346.1	339.5	337.3	330.7	328.5	317.5	310.9	85.3
91.9	324.1	317.5	315.3	308.6	306.4	302.0	299.8	293.2	288.8	284.4	280.0	91.9
98.4	293.2	286.6	282.2	277.8	275.6	269.0	266.8	260.1	255.7	251.3	253.5	98.4
111.5	242.5	235.9	231.5	227.1	224.9	217.2	215.0	208.3	205.0	199.5	199.5	111.5
124.7	-	198.4	194.0	188.5	185.2	178.6	175.3	167.6	163.1	157.6	157.6	124.7
128.0	-	190.7	186.7	179.7	177.5	170.6	166.8	159.3	154.3	149.4	149.6	128.0
137.8	-	-	165.3	158.7	154.3	146.6	143.3	135.6	131.2	124.6	125.7	137.8
144.4	-	-	153.2	146.1	141.8	133.7	130.1	122.5	116.8	111.6	111.0	144.4
150.9	-	-	-	133.4	129.0	121.3	116.8	109.3	104.7	98.8	97.2	150.9
160.8	-	-	-	119.0	113.8	105.7	101.1	93.5	88.7	82.2	80.7	160.8
164.0	-	-	-	-	108.7	100.5	96.1	88.2	83.3	77.2	76.3	164.0
177.2	-	-	-	-	92.2	83.6	78.7	70.5	65.7	59.5	59.5	177.2
190.3	-	-	-	-	-	69.4	64.2	56.0	50.7	43.4	44.5	190.3
196.9	-	-	-	-	-	63.5	58.1	49.7	44.4	36.4	37.7	196.9
203.4	-	-	-	-	-	-	52.0	43.7	38.1	30.2	31.5	203.4
213.3	-	-	-	-	-	-	-	44.3	35.5	30.0	23.3	213.3
216.5	-	-	-	-	-	-	-	-	33.1	27.3	20.5	216.5
223.1	-	-	-	-	-	-	-	-	28.7	22.7	15.7	223.1
229.7	-	-	-	-	-	-	-	-	24.3	18.1	-	229.7
232.9	-	-	-	-	-	-	-	-	-	16.1	-	232.9

**639,500 lb** + **44,100 lb**

# Operation

SH\_2

+  31.5 ft  32.2 ft/s 360° ASME B30.5										
150.9 ft 170.6 ft 190.3 ft 210.0 ft 223.1 ft 242.8 ft 255.9 ft 275.6 ft 288.7 ft										
ft	1,000 lb									ft
26.2	1743.9	-	-	-	-	-	-	-	-	26.2
29.5	1552.1	1472.7	1393.3	-	-	-	-	-	-	29.5
32.8	1366.9	1296.3	1232.4	1170.7	1131.0	-	-	-	-	32.8
36.1	1226.9	1167.3	1113.3	1061.5	1026.3	972.2	939.2	-	-	36.1
39.4	1086.9	1038.4	994.3	952.4	921.5	881.8	855.4	817.9	793.7	39.4
45.9	897.3	862.0	828.9	795.9	771.6	740.8	718.7	690.0	668.0	45.9
52.5	747.4	729.7	705.5	679.0	659.2	634.9	615.1	590.8	573.2	52.5
59.1	615.1	615.1	610.7	588.6	571.0	551.2	533.5	513.7	498.2	59.1
65.6	520.3	518.1	518.1	515.9	500.4	482.8	467.4	449.7	436.5	65.6
72.2	447.5	445.3	443.1	440.9	436.5	427.7	414.5	396.8	383.6	72.2
78.7	388.0	388.0	385.8	381.4	377.0	374.8	368.2	354.9	341.7	78.7
85.3	341.7	339.5	337.3	335.1	330.7	326.3	321.9	315.3	304.2	85.3
91.9	304.2	302.0	299.8	295.4	291.0	288.8	282.2	277.8	273.4	91.9
98.4	271.2	269.0	266.8	264.6	257.9	255.7	249.1	244.7	240.3	98.4
111.5	220.5	218.3	215.0	211.6	206.1	202.8	196.2	190.7	185.2	111.5
124.7	183.0	179.7	176.4	172.0	164.2	160.9	154.3	148.8	143.3	124.7
137.8	153.2	148.8	144.4	140.0	132.3	129.0	121.3	115.7	108.7	137.8
150.9	-	123.5	119.0	113.5	106.7	102.3	95.0	89.9	82.5	150.9
154.2	-	119.0	113.8	108.5	101.5	97.0	89.4	84.5	77.4	154.2
164.0	-	-	98.8	93.3	85.8	81.1	73.6	68.3	62.4	164.0
173.9	-	-	86.2	80.5	72.6	67.9	60.0	54.8	48.8	173.9
177.2	-	-	-	76.3	68.3	63.5	56.0	50.5	44.3	177.2
190.3	-	-	-	62.2	54.2	48.9	41.2	34.6	28.7	190.3
200.1	-	-	-	-	45.2	39.7	31.7	25.7	17.2	200.1
203.4	-	-	-	-	-	36.6	28.7	22.7	-	203.4
210.0	-	-	-	-	-	31.3	22.7	17.2	-	210.0
216.5	-	-	-	-	-	26.0	16.8	-	-	216.5
219.8	-	-	-	-	-	23.8	-	-	-	219.8

639,500 lb + 44,100 lb

# Operation

LH\_2

+ <b>31.5 ft</b> <b>32.2 ft/s</b> <b>360°</b> <b>ASME B30.5</b>											
<b>216.5 ft</b> <b>236.2 ft</b> <b>255.9 ft</b> <b>275.6 ft</b> <b>295.3 ft</b> <b>315.0 ft</b> <b>334.6 ft</b> <b>354.3 ft</b> <b>374.0 ft</b> <b>393.7 ft</b>											
ft	1,000 lb										ft
32.8	1181.7	-	-	-	-	-	-	-	-	-	32.8
36.1	1075.9	1022.9	978.9	-	-	-	-	-	-	-	36.1
39.4	970.0	932.6	895.1	862.0	831.1	-	-	-	-	-	39.4
42.7	895.1	862.0	828.9	799.2	771.6	707.7	628.3	-	-	-	42.7
45.9	820.1	791.5	762.8	736.3	712.1	687.8	612.9	535.7	557.8	-	45.9
49.2	763.9	738.5	712.1	687.8	665.8	644.9	596.4	525.8	549.0	476.2	49.2
52.5	707.7	685.6	661.4	639.3	619.5	601.9	579.8	515.9	540.1	467.4	52.5
59.1	619.5	599.7	582.0	562.2	546.7	531.3	513.7	498.2	478.4	456.4	59.1
65.6	544.5	533.5	515.9	500.4	487.2	474.0	458.6	445.3	427.7	414.5	65.6
72.2	471.8	471.8	463.0	449.7	438.7	425.5	412.3	401.2	383.6	372.6	72.2
78.7	414.5	414.5	410.1	405.7	396.8	385.8	372.6	361.6	346.1	337.3	78.7
85.3	366.0	366.0	363.8	359.4	359.4	350.5	339.5	328.5	315.3	306.4	85.3
91.9	328.5	328.5	324.1	321.9	321.9	317.5	308.6	299.8	286.6	277.8	91.9
98.4	295.4	295.4	291.0	288.8	288.8	284.4	282.2	275.6	262.4	255.7	98.4
111.5	244.7	244.7	240.3	235.9	235.9	233.7	231.5	229.3	222.7	215.0	111.5
124.7	205.0	205.0	200.6	197.3	197.3	194.0	190.7	189.6	183.0	180.8	124.7
137.8	175.3	174.2	169.8	166.4	166.4	163.1	159.8	158.7	149.9	146.6	137.8
150.9	151.0	149.9	145.5	141.1	141.1	137.8	133.4	132.3	123.5	122.4	150.9
164.0	131.2	130.1	124.6	120.2	120.2	115.7	112.4	110.2	98.5	100.8	164.0
177.2	114.6	112.4	106.9	102.5	102.1	98.1	94.1	92.4	78.3	82.7	177.2
190.3	100.8	98.1	92.4	87.7	87.1	83.1	79.1	77.2	63.3	67.2	190.3
193.6	97.7	95.1	89.1	84.6	83.9	79.9	75.6	73.6	60.8	63.8	193.6
203.4	-	86.0	80.0	75.2	74.3	70.1	65.0	62.6	53.6	53.6	203.4
213.3	-	78.3	72.1	67.1	66.0	61.7	55.6	52.5	46.1	43.3	213.3
216.5	-	-	69.4	64.4	63.3	59.1	52.5	49.2	43.7	39.9	216.5
229.7	-	-	60.6	55.1	53.8	49.6	42.5	38.4	33.3	28.0	229.7
242.8	-	-	-	47.2	45.6	41.2	35.7	29.8	24.0	17.9	242.8
246.1	-	-	-	45.4	43.9	39.4	34.0	28.2	21.9	15.7	246.1
255.9	-	-	-	-	38.6	34.0	28.4	23.6	15.7	-	255.9
262.5	-	-	-	-	35.5	30.9	25.0	20.4	-	-	262.5
269.0	-	-	-	-	-	27.8	21.6	17.2	-	-	269.0
272.3	-	-	-	-	-	26.4	20.1	15.7	-	-	272.3
278.9	-	-	-	-	-	23.6	17.1	-	-	-	278.9
282.2	-	-	-	-	-	-	15.7	-	-	-	282.2

**551,200 lb** + **0 lb**  
**639,500 lb** + **44,100 lb**

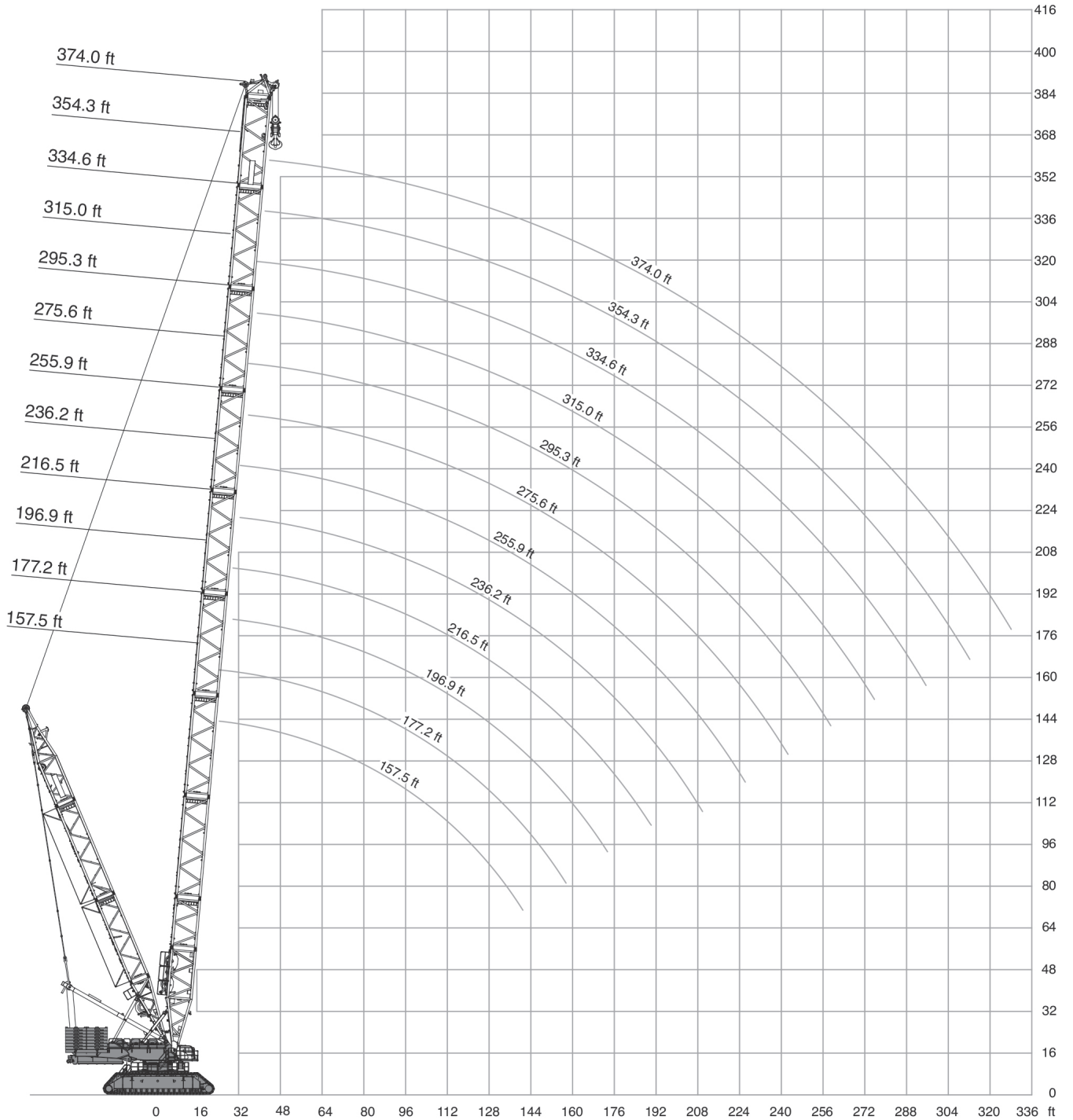
# Operation

LH\_7

+ <b>31.5 ft</b> <b>32.2 ft/s</b> <b>360°</b> <b>ASME B30.5</b>										
<b>216.5 ft</b> <b>236.2 ft</b> <b>255.9 ft</b> <b>275.6 ft</b> <b>295.3 ft</b> <b>315.0 ft</b> <b>334.6 ft</b> <b>354.3 ft</b> <b>374.0 ft</b>										
ft	1,000 lb									ft
32.8	1179.5	-	-	-	-	-	-	-	-	32.8
36.1	1074.8	1018.5	974.4	-	-	-	-	-	-	36.1
39.4	970.0	930.4	890.7	855.4	824.5	-	-	-	-	39.4
42.7	894.0	859.8	824.5	791.5	763.9	731.9	705.5	-	-	42.7
45.9	817.9	789.3	758.4	727.5	703.3	679.0	654.8	632.7	604.1	45.9
52.5	705.5	681.2	657.0	630.5	612.9	590.8	571.0	551.2	535.7	52.5
59.1	617.3	597.5	575.4	555.6	537.9	520.3	504.9	487.2	471.8	59.1
65.6	544.5	531.3	511.5	493.8	478.4	463.0	449.7	434.3	421.1	65.6
72.2	471.8	469.6	458.6	440.9	429.9	414.5	403.4	388.0	377.0	72.2
78.7	412.3	412.3	405.7	399.0	388.0	374.8	363.8	350.5	341.7	78.7
85.3	366.0	363.8	359.4	354.9	352.7	339.5	328.5	317.5	308.6	85.3
91.9	328.5	326.3	319.7	315.3	315.3	310.9	299.8	288.8	280.0	91.9
98.4	295.4	293.2	286.6	282.2	282.2	277.8	273.4	264.6	255.7	98.4
111.5	242.5	240.3	235.9	229.3	229.3	224.9	222.7	218.3	215.0	111.5
124.7	205.0	202.8	196.2	190.7	189.6	185.2	183.0	178.6	175.3	124.7
137.8	174.2	172.0	165.3	159.8	158.7	153.2	151.0	145.5	144.4	137.8
150.9	151.0	147.7	140.0	134.5	133.4	127.9	124.6	119.0	117.9	150.9
164.0	131.2	126.8	119.0	113.5	111.3	106.0	103.2	96.1	96.3	164.0
177.2	113.5	109.8	101.6	95.5	93.7	88.0	85.1	77.4	78.3	177.2
190.3	100.1	95.2	87.1	80.5	78.7	73.0	69.9	64.2	62.8	190.3
193.6	97.0	92.2	84.0	77.3	75.5	69.4	66.6	60.9	59.0	193.6
203.4	-	83.1	74.7	67.9	65.9	60.2	56.9	51.1	47.4	203.4
213.3	-	75.4	66.8	59.8	57.7	51.8	48.2	42.7	37.3	213.3
216.5	-	-	64.2	57.1	54.9	48.9	45.2	39.9	34.0	216.5
229.7	-	-	55.3	47.8	45.4	39.5	35.5	30.2	22.3	229.7
236.2	-	-	-	43.9	41.3	35.3	31.5	25.9	17.2	236.2
242.8	-	-	-	39.9	37.3	31.1	27.6	21.6	-	242.8
246.1	-	-	-	38.1	35.5	29.3	25.7	19.7	-	246.1
252.6	-	-	-	-	32.0	25.6	21.9	15.9	-	252.6
255.9	-	-	-	-	30.2	23.8	20.1	-	-	255.9
262.5	-	-	-	-	27.1	20.7	16.8	-	-	262.5
269.0	-	-	-	-	-	17.6	-	-	-	269.0
272.3	-	-	-	-	-	16.3	-	-	-	272.3

**639,500 lb** + **44,100 lb**





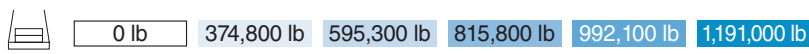
# Operation

# SSL\_1, SSL\_11

463 klb + 44.1 klb ZB 49.2-98.4 ft 31.5 ft 32.2 ft/s 360° ASME B30.5







ft	157.5 ft				177.2 ft				196.9 ft				ft
	SSL_1		SSL_11		SSL_1		SSL_11		SSL_1		SSL_11		
	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	
	49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft		
1,000 lb													
29.5	1503.6	2755.8	2755.8	-	1452.8	2698.5	2698.5	2616.9	-	-	-	-	29.5
32.8	1353.6	2755.8	2755.8	-	1283.1	2696.3	2698.5	2616.9	1219.2	2370.0	2370.0	2370.0	32.8
39.4	1082.5	2753.6	2753.6	-	1034.0	2669.8	2698.5	2616.9	989.9	2370.0	2370.0	2370.0	39.4
45.9	895.1	2447.1	2515.5	-	862.0	2436.1	2504.5	2616.9	826.7	2370.0	2370.0	2370.0	45.9
52.5	696.7	2142.9	2202.4	-	690.0	2131.9	2193.6	2464.8	692.3	2127.5	2189.2	2370.0	52.5
59.1	564.4	1902.6	1957.7	-	560.0	1891.6	1946.7	2191.4	557.8	1889.4	1942.3	2187.0	59.1
65.6	493.8	1708.6	1759.3	-	465.2	1699.8	1748.3	1968.7	456.4	1695.4	1743.9	1964.3	65.6
72.2	432.1	1549.9	1593.9	-	412.3	1538.8	1585.1	1785.7	385.8	1534.4	1580.7	1781.3	72.2
78.7	374.8	1415.4	1457.3	-	361.6	1406.6	1446.2	1631.4	343.9	1402.1	1441.8	1627.0	78.7
85.3	326.3	1302.9	1340.4	-	317.5	1291.9	1329.4	1501.3	304.2	1287.5	1325.0	1496.9	85.3
91.9	282.2	1203.7	1241.2	-	277.8	1194.9	1230.2	1388.9	269.0	1190.5	1225.8	1384.5	91.9
98.4	246.9	1119.9	1153.0	-	242.5	1108.9	1142.0	1291.9	235.9	1104.5	1137.6	1287.5	98.4
111.5	196.2	963.4	998.7	-	185.2	970.0	998.7	1131.0	179.7	963.4	994.3	1126.6	111.5
124.7	165.3	795.9	862.0	-	147.7	857.6	879.6	994.3	137.8	853.2	879.6	998.7	124.7
137.8	137.8	685.6	718.7	-	124.6	736.3	782.6	890.7	108.9	762.8	787.1	895.1	137.8
144.4	126.8	619.5	652.6	-	113.8	677.9	729.7	825.6	99.9	723.1	738.5	842.2	144.4
150.9	-	-	-	-	103.0	632.7	676.8	760.6	90.8	683.4	698.9	800.3	150.9
160.8	-	-	-	-	89.9	564.4	595.2	672.4	77.6	609.0	650.9	742.4	160.8
164.0	-	-	-	-	-	-	-	-	73.2	584.2	634.9	723.1	164.0
177.2	-	-	-	-	-	-	-	-	59.7	518.1	544.5	621.7	177.2

ft	216.5 ft				236.2 ft				255.9 ft				ft
	SSL_1		SSL_11		SSL_1		SSL_11		SSL_1		SSL_11		
	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	
	49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft		
1,000 lb													
32.8	1157.4	2202.4	2202.4	2116.4	-	-	-	-	-	-	-	-	32.8
36.1	1051.6	2202.4	2202.4	2116.4	994.3	2030.5	2030.5	1942.3	950.2	1796.8	1803.4	1840.9	36.1
39.4	945.8	2202.4	2202.4	2116.4	906.1	2030.5	2030.5	1942.3	866.4	1796.8	1803.4	1840.9	39.4
45.9	793.7	2202.4	2202.4	2116.4	762.8	2004.0	2030.5	1942.3	731.9	1796.8	1803.4	1840.9	45.9
52.5	679.0	2118.6	2171.6	2116.4	654.8	1964.3	2030.5	1942.3	628.3	1757.1	1803.4	1840.9	52.5
59.1	553.4	1880.5	1933.5	2116.4	544.5	1876.1	1909.2	1942.3	500.4	1741.7	1803.4	1840.9	59.1
65.6	451.9	1686.5	1735.0	1955.5	447.5	1682.1	1730.6	1942.3	407.9	1675.5	1704.2	1840.9	65.6
72.2	374.8	1527.8	1571.9	1772.5	368.2	1523.4	1567.5	1768.1	357.1	1516.8	1560.9	1761.5	72.2
78.7	319.7	1393.3	1435.2	1620.4	308.6	1388.9	1430.8	1616.0	317.5	1382.3	1424.2	1607.2	78.7
85.3	286.6	1278.7	1318.4	1488.1	264.6	1274.3	1314.0	1483.7	273.4	1267.7	1307.3	1477.1	85.3
91.9	253.5	1181.7	1217.0	1375.7	238.1	1177.3	1212.5	1371.3	233.7	1170.7	1205.9	1364.7	91.9
98.4	224.9	1095.7	1128.8	1278.7	210.5	1091.3	1124.4	1274.3	199.5	1084.7	1117.7	1267.7	98.4
111.5	172.0	956.8	985.5	1117.7	162.0	952.4	981.1	1113.3	143.3	943.6	974.4	1104.5	111.5
124.7	129.0	844.4	870.8	989.9	121.3	840.0	866.4	985.5	102.7	833.3	859.8	976.6	124.7
137.8	96.6	754.0	778.2	886.3	87.7	749.6	773.8	879.6	79.6	743.0	765.0	873.0	137.8
150.9	74.5	681.2	698.9	800.3	62.4	674.6	694.5	795.9	61.5	668.0	687.8	787.1	150.9
164.0	60.2	617.3	632.7	729.7	44.8	612.9	628.3	723.1	43.0	604.1	619.5	714.3	164.0
177.2	45.9	544.5	571.0	661.4	33.3	557.8	573.2	661.4	26.9	549.0	564.4	654.8	177.2
187.0	37.6	486.7	528.0	610.1	24.5	521.4	529.7	616.7	17.0	513.7	526.9	615.1	187.0
190.3	34.8	467.4	513.7	593.0	21.6	509.3	518.1	601.9	-	502.7	515.9	601.9	190.3
193.6	32.4	456.4	496.0	573.2	19.2	491.6	507.6	590.3	-	492.7	505.4	590.3	193.6
196.9	-	-	-	-	16.8	474.0	497.1	578.7	-	482.8	494.9	578.7	196.9
203.4	-	-	-	-	-	440.9	476.2	555.6	-	463.0	474.0	555.6	203.4
213.3	-	-	-	-	-	399.0	438.7	511.5	-	424.9	440.9	517.0	213.3
216.5	-	-	-	-	-	-	-	-	-	412.3	432.1	507.1	216.5
229.7	-	-	-	-	-	-	-	-	-	357.1	396.8	469.6	229.7



# Operation





















# SSL\_1, SSL\_11


 <b>463 klb + 44.1 klb ZB</b>  <b>49.2-98.4 ft</b>  <b>31.5 ft</b>  <b>32.2 ft/s</b>  <b>360°</b>  <b>ASME B30.5</b>													
275.6 ft				295.3 ft				315.0 ft					
SSL_1		SSL_11		SSL_1		SSL_11		SSL_1		SSL_11			
0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb		
49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft			
ft	1,000 lb											ft	
39.4	831.1	1609.4	1613.8	1649.1	795.9	1430.8	1435.2	1468.3	-	-	-	-	39.4
42.7	767.2	1609.4	1613.8	1649.1	735.2	1430.8	1435.2	1468.3	707.7	1291.9	1296.3	1327.2	42.7
45.9	703.3	1609.4	1613.8	1649.1	674.6	1430.8	1435.2	1468.3	654.8	1291.9	1296.3	1327.2	45.9
52.5	606.3	1589.5	1613.8	1649.1	582.0	1430.8	1435.2	1468.3	566.6	1291.9	1296.3	1327.2	52.5
59.1	524.7	1571.9	1613.8	1649.1	509.3	1413.2	1435.2	1468.3	496.0	1291.9	1296.3	1327.2	59.1
65.6	440.9	1543.2	1593.9	1649.1	434.3	1397.7	1435.2	1468.3	427.7	1274.3	1296.3	1327.2	65.6
72.2	368.2	1496.9	1527.8	1649.1	366.0	1377.9	1413.2	1468.3	366.0	1245.6	1291.9	1327.2	72.2
78.7	306.4	1377.9	1417.6	1598.4	306.4	1351.4	1371.3	1468.3	308.6	1243.4	1269.9	1327.2	78.7
85.3	257.9	1263.2	1300.7	1472.7	255.7	1256.6	1296.3	1450.6	260.1	1232.4	1245.6	1327.2	85.3
91.9	217.2	1166.2	1201.5	1360.3	215.0	1159.6	1194.9	1353.6	218.3	1161.8	1197.1	1327.2	91.9
98.4	188.5	1080.3	1113.3	1263.2	181.9	1073.7	1106.7	1256.6	184.1	1075.9	1108.9	1258.8	98.4
111.5	149.9	939.2	967.8	1100.1	141.1	932.6	963.4	1095.7	136.7	934.8	965.6	1097.9	111.5
124.7	113.5	826.7	853.2	972.2	107.6	822.3	848.8	965.6	106.7	824.5	851.0	967.8	124.7
137.8	81.4	736.3	760.6	868.6	77.8	729.7	754.0	862.0	78.9	734.1	756.2	864.2	137.8
150.9	55.1	661.4	681.2	782.6	51.8	654.8	676.8	776.0	54.2	657.0	679.0	778.2	150.9
164.0	33.5	599.7	615.1	709.9	30.0	593.0	608.5	703.3	32.6	595.2	610.7	705.5	164.0
173.9	20.8	558.3	572.1	663.6	15.9	551.2	566.6	657.0	18.5	553.4	568.8	659.2	173.9
177.2	16.5	544.5	557.8	648.2	-	537.9	553.4	641.5	-	540.1	553.4	643.8	177.2
190.3	-	498.2	509.3	595.2	-	491.6	502.7	588.6	-	491.6	504.9	590.8	190.3
203.4	-	456.4	469.6	549.0	-	449.7	460.8	542.3	-	451.9	463.0	542.3	203.4
216.5	-	421.1	432.1	507.1	-	414.5	425.5	500.4	-	414.5	425.5	502.7	216.5
229.7	-	385.8	394.6	467.4	-	381.4	392.4	463.0	-	383.6	394.6	465.2	229.7
242.8	-	337.3	368.2	434.3	-	354.9	361.6	432.1	-	354.9	366.0	432.1	242.8
246.1	-	326.3	361.6	427.7	-	345.0	353.3	421.6	-	348.9	359.4	424.9	246.1
255.9	-	-	-	-	-	315.3	335.1	396.8	-	330.7	339.5	403.4	255.9
262.5	-	-	-	-	-	295.4	324.1	385.8	-	317.5	324.1	389.1	262.5
269.0	-	-	-	-	-	-	-	-	-	304.2	313.1	374.8	269.0
278.9	-	-	-	-	-	-	-	-	-	275.6	297.6	354.9	278.9

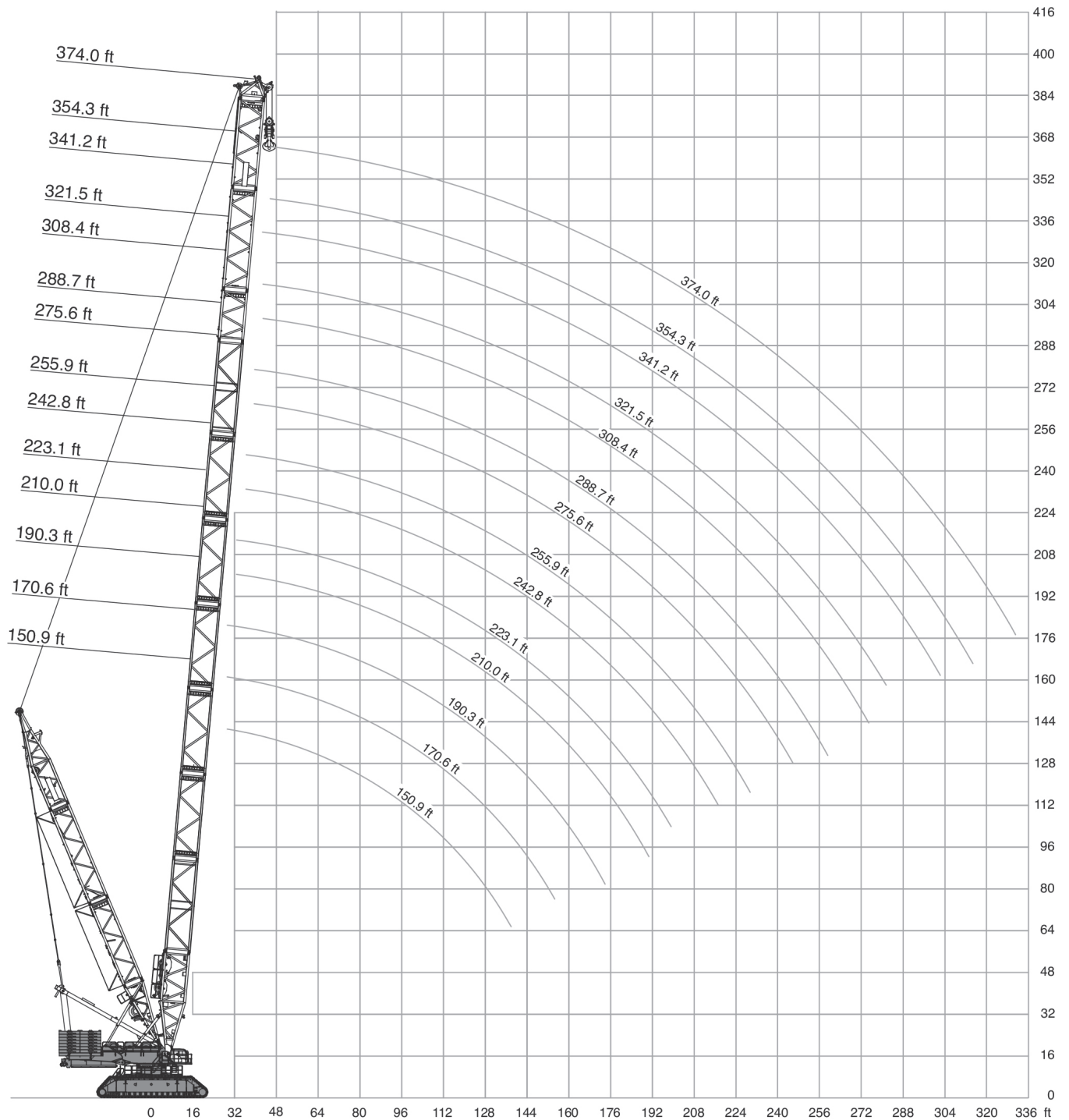
	0 lb	374,800 lb	595,300 lb	815,800 lb	992,100 lb	1,191,000 lb
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# Operation

# SSL\_1, SSL\_11







 <b>463 klb +  44.1 klb ZB</b>  <b>49.2-98.4 ft</b>  <b>31.5 ft</b>  <b>32.2 ft/s</b> <b>360°</b> <b>ASME B30.5</b>															
 <b>334.6 ft</b>					<b>354.3 ft ft</b>					<b>374.0 ft</b>					
<b>SSL_1</b>		<b>SSL_11</b>			<b>SSL_1</b>		<b>SSL_11</b>			<b>SSL_1</b>		<b>SSL_11</b>			
 <b>0 lb</b>		 <b>0 lb - 1,191 klb</b>		 <b>0 lb - 992.1 klb</b>		 <b>0 lb - 1,191 klb</b>		 <b>0 lb</b>		 <b>0 lb - 1,191 klb</b>		 <b>0 lb - 992.1 klb</b>		 <b>0 lb - 1,191 klb</b>	
 <b>49.2 - 78.7 ft</b>		 <b>78.7 - 98.4 ft</b>			 <b>49.2 - 78.7 ft</b>		 <b>78.7 - 98.4 ft</b>			 <b>49.2 - 78.7 ft</b>		 <b>78.7 - 98.4 ft</b>			
<b>1,000 lb</b>															
ft														ft	
42.7	679.0	1155.2	1159.6	1188.3	-	-	-	-	-	-	-	-	-	42.7	
45.9	628.3	1155.2	1159.6	1188.3	604.1	1036.2	1040.6	1067.0	579.8	928.1	932.6	959.0	45.9		
52.5	544.5	1155.2	1159.6	1188.3	524.7	1036.2	1040.6	1067.0	502.7	928.1	932.6	959.0	52.5		
59.1	476.2	1155.2	1159.6	1188.3	458.6	1036.2	1040.6	1067.0	440.9	928.1	932.6	959.0	59.1		
65.6	414.5	1155.2	1159.6	1188.3	403.4	1036.2	1040.6	1067.0	388.0	928.1	932.6	959.0	65.6		
72.2	357.1	1139.8	1159.6	1188.3	328.5	1036.2	1040.6	1067.0	326.3	928.1	930.4	959.0	72.2		
78.7	304.2	1115.5	1155.2	1188.3	269.0	1009.7	1040.6	1067.0	266.8	928.1	930.4	959.0	78.7		
85.3	255.7	1115.5	1146.4	1188.3	224.9	1000.9	1040.6	1067.0	219.4	908.3	928.1	959.0	85.3		
91.9	216.1	1115.5	1137.6	1188.3	192.9	998.7	1040.6	1067.0	184.1	908.3	923.7	959.0	91.9		
98.4	180.8	1069.2	1102.3	1188.3	176.4	998.7	1040.6	1067.0	160.9	903.9	921.5	959.0	98.4		
111.5	129.0	928.1	959.0	1089.1	131.2	923.7	950.2	1042.8	124.6	870.8	901.7	952.4	111.5		
124.7	98.3	817.9	842.2	961.2	91.3	811.3	837.8	956.8	87.3	804.7	820.1	917.1	124.7		
137.8	72.3	725.3	749.6	857.6	58.2	720.9	745.2	851.0	54.9	714.3	738.5	844.4	137.8		
150.9	48.7	650.4	672.4	771.6	30.9	646.0	665.8	765.0	27.6	639.3	659.2	758.4	150.9		
157.5	38.4	619.5	638.2	735.2	19.6	612.9	630.5	728.6	15.9	606.3	623.9	722.0	157.5		
164.0	28.0	588.6	604.1	698.9	-	582.0	599.7	692.3	-	575.4	593.0	685.6	164.0		
170.6	18.5	560.0	575.4	668.0	-	554.5	571.0	661.4	-	549.0	564.4	654.8	170.6		
177.2	-	533.5	546.7	637.1	-	526.9	542.3	630.5	-	522.5	535.7	623.9	177.2		
190.3	-	485.0	498.2	582.0	-	480.6	493.8	577.6	-	474.0	487.2	571.0	190.3		
203.4	-	443.1	456.4	535.7	-	438.7	449.7	531.3	-	432.1	443.1	524.7	203.4		
216.5	-	407.9	418.9	493.8	-	401.2	414.5	489.4	-	394.6	407.9	482.8	216.5		
229.7	-	374.8	385.8	456.4	-	370.4	381.4	451.9	-	363.8	374.8	445.3	229.7		
242.8	-	348.3	357.1	425.5	-	341.7	352.7	418.9	-	335.1	346.1	412.3	242.8		
255.9	-	321.9	332.9	396.8	-	317.5	326.3	390.2	-	308.6	319.7	383.6	255.9		
269.0	-	299.8	308.6	370.4	-	293.2	304.2	363.8	-	286.6	295.4	357.1	269.0		
282.2	-	280.0	284.4	346.1	-	273.4	282.2	339.5	-	266.8	275.6	332.9	282.2		
295.3	-	246.9	266.8	319.7	-	255.7	262.4	319.7	-	246.9	255.7	310.9	295.3		
298.6	-	240.3	262.4	315.3	-	249.1	255.7	313.6	-	243.1	251.9	305.9	298.6		
308.4	-	-	-	-	-	229.3	242.5	295.4	-	231.5	240.3	291.0	308.4		
315.0	-	-	-	-	-	216.1	235.9	286.6	-	221.6	227.6	282.2	315.0		
321.5	-	-	-	-	-	-	-	-	-	211.6	219.4	273.4	321.5		
331.4	-	-	-	-	-	-	-	-	-	191.8	209.4	257.9	331.4		



0 lb
374,800 lb
595,300 lb
815,800 lb
992,100 lb
1,191,000 lb



# Operation

# SSL\_2, SSL\_21

 <b>463 klb + 44.1 klb ZB</b>  <b>49.2-98.4 ft</b>  <b>31.5 ft</b>  <b>32.2 ft/s</b>  <b>360°</b>  <b>ASME B30.5</b>																
150.9 ft				170.6 ft				190.3 ft				210.0 ft				
SSL_2		SSL_21		SSL_2		SSL_21		SSL_2		SSL_21		SSL_2		SSL_21		
0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	
49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft		
ft	1,000 lb															ft
29.5	1565.3	2755.8	2755.8	-	1477.1	2755.8	2755.8	2755.8	-	-	-	2453.7	-	-	-	29.5
32.8	1371.3	2755.8	2755.8	-	1300.7	2755.8	2755.8	2755.8	1236.8	2453.7	2453.7	2453.7	1175.1	2202.4	2202.4	32.8
39.4	1091.3	2749.2	2753.6	-	1042.8	2755.8	2755.8	2755.8	998.7	2453.7	2453.7	2453.7	954.6	2202.4	2202.4	39.4
45.9	884.1	2433.9	2502.2	-	864.2	2422.9	2493.4	2755.8	833.3	2418.5	2453.7	2453.7	800.3	2171.6	2202.4	45.9
52.5	687.8	2129.7	2189.2	-	690.0	2118.6	2180.4	2453.7	690.0	2114.2	2176.0	2447.1	679.0	1896.0	2169.4	52.5
59.1	562.2	1889.4	1944.5	-	551.2	1880.5	1933.5	2178.2	551.2	1873.9	1929.0	2173.8	551.2	1679.9	1922.4	59.1
65.6	491.6	1695.4	1743.9	-	463.0	1686.5	1735.0	1955.5	449.7	1682.1	1730.6	1951.1	447.5	1505.8	1724.0	65.6
72.2	423.3	1536.6	1580.7	-	407.9	1527.8	1571.9	1772.5	383.6	1521.2	1567.5	1768.1	370.4	1360.3	1560.9	72.2
78.7	366.0	1402.1	1444.0	-	354.9	1393.3	1435.2	1620.4	341.7	1388.9	1430.8	1613.8	319.7	1239.0	1424.2	78.7
85.3	313.1	1289.7	1327.2	-	308.6	1280.9	1318.4	1490.3	299.8	1274.3	1314.0	1483.7	284.4	1135.4	1307.3	85.3
91.9	271.2	1192.7	1228.0	-	266.8	1181.7	1217.0	1377.9	262.4	1177.3	1212.5	1371.3	251.3	1047.2	1205.9	91.9
98.4	235.9	1104.5	1126.6	-	231.5	1097.9	1131.0	1280.9	227.1	1091.3	1124.4	1274.3	219.4	970.0	1119.9	98.4
111.5	188.5	912.7	981.1	-	175.3	956.8	987.7	1119.9	170.9	952.4	981.1	1113.3	164.2	844.4	974.4	111.5
124.7	154.3	778.2	813.5	-	141.1	835.6	862.0	981.1	129.0	842.2	866.4	985.5	121.3	743.0	859.8	124.7
137.8	126.8	632.7	665.8	-	115.7	696.7	758.4	848.8	103.2	751.8	769.4	881.8	89.5	659.2	769.4	137.8
150.9	-	-	-	-	93.5	606.3	637.1	716.5	83.3	650.4	687.8	789.3	69.0	588.6	690.0	150.9
154.2	-	-	-	-	88.8	577.6	608.5	685.6	78.9	625.0	666.9	763.4	65.1	574.3	669.1	154.2
164.0	-	-	-	-	-	-	-	-	65.7	557.8	604.1	685.6	53.4	531.3	617.3	164.0
173.9	-	-	-	-	-	-	-	-	55.6	504.9	531.3	608.5	42.6	494.9	576.0	173.9
177.2	-	-	-	-	-	-	-	-	-	-	-	-	39.0	482.8	562.2	177.2
190.3	-	-	-	-	-	-	-	-	-	-	-	-	28.2	436.5	487.2	190.3

	0 lb	374,800 lb	595,300 lb	815,800 lb	992,100 lb	1,191,000 lb
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# Operation

# SSL\_2, SSL\_21

463 klb + 44.1 klb ZB 49.2-98.4 ft 31.5 ft 32.2 ft/s 360° ASME B30.5																	
223.1 ft				242.8 ft				255.9 ft				275.6 ft					
SSL_2		SSL_21		SSL_2		SSL_21		SSL_2		SSL_21		SSL_2		SSL_21			
0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb		
49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft			
1,000 lb																	
32.8	1133.2	2116.4	2116.4	2116.4	-	-	-	-	-	-	-	-	-	-	-	-	32.8
36.1	1029.6	2116.4	2116.4	2116.4	974.4	1942.3	1942.3	1942.3	943.6	1854.1	1854.1	1854.1	-	-	-	-	36.1
39.4	925.9	2116.4	2116.4	2116.4	886.3	1942.3	1942.3	1942.3	857.6	1854.1	1854.1	1854.1	822.3	1675.5	1675.5	1675.5	39.4
45.9	776.0	2116.4	2116.4	2116.4	745.2	1942.3	1942.3	1942.3	720.9	1854.1	1854.1	1854.1	694.5	1675.5	1675.5	1675.5	45.9
52.5	661.4	2101.0	2116.4	2116.4	623.9	1942.3	1942.3	1942.3	619.5	1854.1	1854.1	1854.1	595.2	1675.5	1675.5	1675.5	52.5
59.1	540.1	1862.9	1915.8	2116.4	489.4	1856.3	1909.2	1942.3	520.3	1847.5	1854.1	1854.1	504.9	1675.5	1675.5	1675.5	59.1
65.6	440.9	1668.9	1717.4	1937.9	403.4	1662.3	1710.8	1933.5	427.7	1655.7	1704.2	1854.1	421.1	1649.1	1675.5	1675.5	65.6
72.2	361.6	1510.2	1554.3	1754.9	359.4	1503.6	1547.6	1750.5	350.5	1494.7	1541.0	1741.7	348.3	1490.3	1534.4	1675.5	72.2
78.7	304.2	1375.7	1417.6	1602.8	308.6	1369.1	1411.0	1596.1	286.6	1362.5	1402.1	1587.3	284.4	1355.8	1397.7	1582.9	78.7
85.3	269.0	1263.2	1300.7	1470.5	262.4	1256.6	1294.1	1466.1	238.1	1247.8	1287.5	1457.3	233.7	1243.4	1280.9	1452.8	85.3
91.9	238.1	1164.0	1199.3	1360.3	222.7	1157.4	1194.9	1353.6	202.8	1150.8	1186.1	1344.8	194.0	1144.2	1179.5	1340.4	91.9
98.4	208.3	1080.3	1113.3	1261.0	186.3	1073.7	1106.7	1256.6	179.7	1064.8	1097.9	1247.8	164.2	1060.4	1093.5	1241.2	98.4
111.5	155.4	939.2	967.8	1100.1	129.0	932.6	961.2	1093.5	134.5	925.9	954.6	1086.9	125.7	919.3	948.0	1080.3	111.5
124.7	113.5	826.7	853.2	972.2	91.9	822.3	848.8	965.6	95.5	813.5	840.0	959.0	88.4	806.9	833.3	952.4	124.7
137.8	80.0	736.3	760.6	868.6	72.5	731.9	754.0	862.0	62.4	723.1	747.4	855.4	56.7	716.5	740.8	848.8	137.8
150.9	56.0	663.6	683.4	782.6	50.0	657.0	676.8	776.0	35.5	648.2	670.2	769.4	30.0	641.5	663.6	762.8	150.9
157.5	48.7	632.7	650.4	747.4	40.5	625.0	643.8	740.8	24.8	615.8	634.9	733.0	18.3	610.7	628.3	726.4	157.5
160.8	45.1	617.3	633.8	729.7	35.7	609.0	627.2	723.1	19.4	599.7	617.3	714.8	-	595.2	612.9	708.2	160.8
164.0	41.4	601.9	617.3	712.1	30.9	593.0	610.7	705.5	-	586.4	601.9	696.7	-	579.8	597.5	690.0	164.0
173.9	30.9	557.2	567.1	658.6	18.7	553.4	569.3	659.2	-	545.1	560.5	650.4	-	540.1	554.5	643.8	173.9
177.2	27.3	542.3	553.4	643.8	-	540.1	555.6	643.8	-	531.3	546.7	634.9	-	526.9	540.1	628.3	177.2
190.3	15.7	467.4	507.1	590.8	-	493.8	504.9	590.8	-	485.0	498.2	582.0	-	478.4	491.6	575.4	190.3
200.1	-	421.1	460.8	535.7	-	450.8	469.0	549.5	-	455.3	465.2	549.0	-	448.6	460.2	542.3	200.1
203.4	-	-	-	-	-	436.5	458.6	537.9	-	445.3	454.2	537.9	-	438.7	449.7	531.3	203.4
216.5	-	-	-	-	-	374.8	416.7	491.6	-	392.4	414.5	489.4	-	403.4	414.5	489.4	216.5
229.7	-	-	-	-	-	-	-	-	-	337.3	379.2	449.7	-	366.0	377.0	447.5	229.7
242.8	-	-	-	-	-	-	-	-	-	-	-	-	-	317.5	350.5	416.7	242.8
246.1	-	-	-	-	-	-	-	-	-	-	-	-	-	306.4	341.7	410.1	246.1

	0 lb	374,800 lb	595,300 lb	815,800 lb	992,100 lb	1,191,000 lb
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# Operation







# SSL\_2, SSL\_21


463 klb + 44.1 klb ZB 49.2-98.4 ft 31.5 ft 32.2 ft/s 360° ASME B30.5																	
288.7 ft				308.4 ft				321.5 ft				341.2 ft					
SSL_2		SSL_21		SSL_2		SSL_21		SSL_2		SSL_21		SSL_2		SSL_21			
0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb - 1,191 klb	
49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft			
ft	1,000 lb															ft	
39.4	795.9	1585.1	1585.1	1585.1	-	-	-	-	-	-	-	-	-	-	-	39.4	
42.7	734.1	1585.1	1585.1	1585.1	698.9	1492.5	1492.5	1492.5	676.8	1399.9	1399.9	1399.9	-	-	-	1307.3	42.7
45.9	672.4	1585.1	1585.1	1585.1	646.0	1492.5	1492.5	1492.5	623.9	1399.9	1399.9	1399.9	599.7	1307.3	1307.3	1307.3	45.9
52.5	577.6	1585.1	1585.1	1585.1	553.4	1492.5	1492.5	1492.5	535.7	1399.9	1399.9	1399.9	515.9	1307.3	1307.3	1307.3	52.5
59.1	491.6	1585.1	1585.1	1585.1	478.4	1492.5	1492.5	1492.5	465.2	1399.9	1399.9	1399.9	447.5	1307.3	1307.3	1307.3	59.1
65.6	412.3	1585.1	1585.1	1585.1	379.2	1492.5	1492.5	1492.5	374.8	1399.9	1399.9	1399.9	372.6	1307.3	1307.3	1307.3	65.6
72.2	339.5	1481.5	1527.8	1585.1	302.0	1474.9	1492.5	1492.5	297.6	1399.9	1399.9	1399.9	295.4	1307.3	1307.3	1307.3	72.2
78.7	280.0	1349.2	1388.9	1574.1	249.1	1342.6	1382.3	1492.5	240.3	1333.8	1375.7	1399.9	235.9	1307.3	1307.3	1307.3	78.7
85.3	227.1	1234.6	1274.3	1444.0	219.4	1228.0	1265.5	1437.4	202.8	1221.4	1258.8	1399.9	191.8	1214.7	1252.2	1307.3	85.3
91.9	186.3	1137.6	1172.9	1331.6	191.8	1131.0	1166.2	1325.0	180.8	1124.4	1159.6	1318.4	164.2	1117.7	1153.0	1307.3	91.9
98.4	154.3	1051.6	1084.7	1234.6	160.9	1045.0	1078.1	1228.0	152.1	1038.4	1071.4	1221.4	144.4	1031.8	1064.8	1214.7	98.4
111.5	113.5	912.7	941.4	1073.7	108.2	906.1	934.8	1067.0	101.0	897.3	928.1	1058.2	95.9	890.7	921.5	1053.8	111.5
124.7	79.1	800.3	826.7	945.8	64.8	793.7	820.1	939.2	58.0	787.1	813.5	930.4	54.5	780.4	806.9	923.7	124.7
137.8	48.5	709.9	734.1	840.0	30.9	703.3	727.5	833.3	23.4	696.7	718.7	826.7	20.1	690.0	714.3	820.1	137.8
141.1	41.9	691.1	714.8	818.5	24.3	683.4	706.6	811.9	16.1	676.8	698.9	805.2	-	671.3	695.0	798.6	141.1
144.4	35.3	672.4	695.6	797.0	17.6	663.6	685.6	790.4	-	658.4	679.8	783.7	-	652.6	675.7	777.1	144.4
150.9	22.0	634.9	657.0	754.0	-	628.3	650.4	747.4	-	621.7	641.5	740.8	-	615.1	637.1	734.1	150.9
154.2	16.1	617.3	639.3	736.3	-	612.3	633.3	729.2	-	605.7	625.0	722.6	-	599.1	620.1	715.8	154.2
164.0	-	571.0	588.6	683.4	-	564.4	582.0	674.6	-	557.8	575.4	668.0	-	551.2	568.8	661.4	164.0
177.2	-	518.1	533.5	621.7	-	511.5	526.9	612.9	-	504.9	518.1	606.3	-	498.2	511.5	599.7	177.2
190.3	-	471.8	485.0	568.8	-	465.2	478.4	560.0	-	456.4	469.6	553.4	-	449.7	463.0	546.7	190.3
203.4	-	429.9	443.1	522.5	-	423.3	434.3	515.9	-	416.7	427.7	507.1	-	410.1	421.1	500.4	203.4
216.5	-	394.6	405.7	480.6	-	388.0	399.0	474.0	-	379.2	390.2	467.4	-	372.6	383.6	460.8	216.5
229.7	-	363.8	374.8	445.3	-	354.9	366.0	436.5	-	348.3	359.4	429.9	-	341.7	352.7	423.3	229.7
242.8	-	328.5	341.7	407.9	-	328.5	339.5	405.7	-	319.7	330.7	396.8	-	313.1	324.1	390.2	242.8
255.9	-	286.6	317.5	379.2	-	304.2	308.6	377.0	-	295.4	306.4	368.2	-	288.8	297.6	361.6	255.9
259.2	-	275.6	308.6	372.6	-	294.3	303.1	367.1	-	289.4	299.8	362.1	-	283.3	292.1	354.9	259.2
269.0	-	-	-	-	-	264.6	286.6	346.1	-	271.2	277.8	343.9	-	266.8	275.6	335.1	269.0
275.6	-	-	-	-	-	246.9	275.6	335.1	-	253.5	267.9	326.3	-	256.8	263.5	323.3	275.6
282.2	-	-	-	-	-	-	-	-	-	235.9	257.9	315.3	-	246.9	251.3	313.1	282.2
285.4	-	-	-	-	-	-	-	-	-	227.1	253.5	310.9	-	240.3	246.4	305.9	285.4
295.3	-	-	-	-	-	-	-	-	-	-	-	-	-	217.2	231.5	286.6	295.3
301.8	-	-	-	-	-	-	-	-	-	-	-	-	-	201.7	224.9	277.8	301.8

	0 lb	374,800 lb	595,300 lb	815,800 lb	992,100 lb	1,191,000 lb
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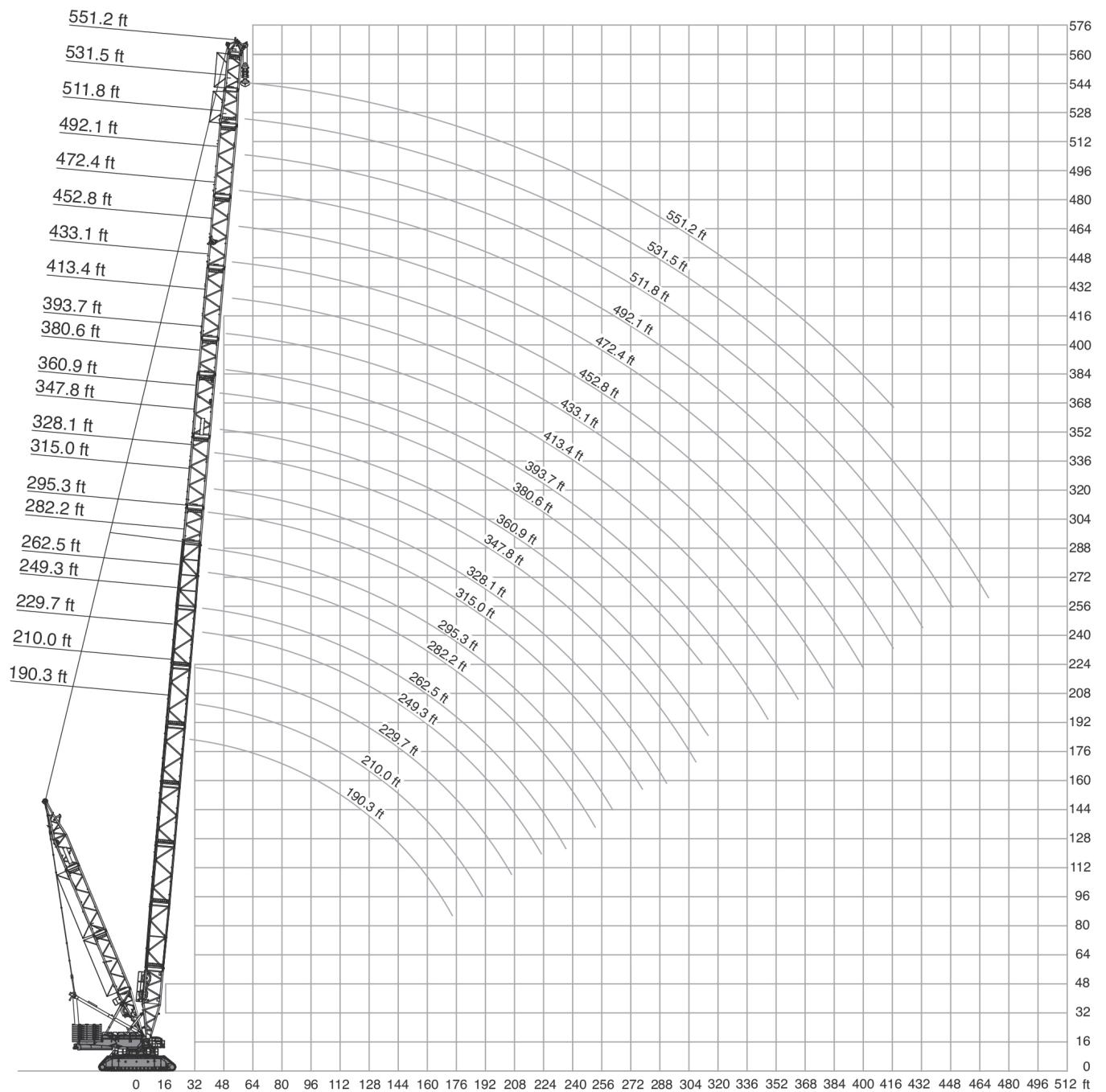
# Operation

# SSL\_2, SSL\_21

 <b>463 klb + 44.1 klb ZB</b>  <b>49.2-98.4 ft</b>  <b>31.5 ft</b>  <b>32.2 ft/s</b>  <b>360°</b>  <b>ASME B30.5</b>										
354.3 ft			374.0 ft							
SSL_2		SSL_21	SSL_2		SSL_21					
0 lb - 0 lb - 0 lb - 0 lb -	1,191 992.1 1,191 1,191	klb klb klb klb	0 lb - 0 lb - 0 lb - 0 lb -	1,191 992.1 1,191 1,191	klb klb klb klb					
49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft				
ft	1,000 lb								ft	
45.9	586.4	1307.3	1307.3	1307.3	562.2	1212.5	1212.5	1212.5	45.9	
52.5	504.9	1307.3	1307.3	1307.3	485.0	1212.5	1212.5	1212.5	52.5	
59.1	438.7	1307.3	1307.3	1307.3	421.1	1212.5	1212.5	1212.5	59.1	
65.6	372.6	1307.3	1307.3	1307.3	366.0	1212.5	1212.5	1212.5	65.6	
72.2	297.6	1307.3	1307.3	1307.3	291.0	1212.5	1212.5	1212.5	72.2	
78.7	235.9	1307.3	1307.3	1307.3	231.5	1212.5	1212.5	1212.5	78.7	
85.3	189.6	1214.7	1236.8	1307.3	181.9	1188.3	1192.7	1212.5	85.3	
91.9	157.6	1115.5	1153.0	1305.1	145.5	1108.9	1122.2	1212.5	91.9	
98.4	140.0	1031.8	1064.8	1214.7	122.4	1022.9	1053.8	1203.7	98.4	
111.5	94.4	890.7	919.3	1051.6	85.3	881.8	912.7	1045.0	111.5	
124.7	54.2	780.4	806.9	923.7	47.4	771.6	798.1	917.1	124.7	
134.5	28.6	711.0	735.8	846.0	22.0	701.1	725.3	837.8	134.5	
137.8	20.1	687.8	712.1	820.1	-	681.2	705.5	811.3	137.8	
150.9	-	612.9	634.9	734.1	-	606.3	628.3	725.3	150.9	
164.0	-	551.2	568.8	661.4	-	542.3	562.2	652.6	164.0	
177.2	-	496.0	511.5	599.7	-	489.4	504.9	590.8	177.2	
190.3	-	449.7	463.0	546.7	-	443.1	456.4	537.9	190.3	
203.4	-	407.9	421.1	500.4	-	401.2	412.3	491.6	203.4	
216.5	-	372.6	383.6	458.6	-	363.8	377.0	451.9	216.5	
229.7	-	341.7	350.5	423.3	-	332.9	343.9	414.5	229.7	
242.8	-	313.1	321.9	390.2	-	304.2	315.3	381.4	242.8	
255.9	-	286.6	297.6	361.6	-	280.0	288.8	352.7	255.9	
269.0	-	264.6	273.4	335.1	-	255.7	266.8	326.3	269.0	
282.2	-	244.7	253.5	310.9	-	235.9	244.7	302.0	282.2	
295.3	-	227.1	231.5	291.0	-	218.3	227.1	282.2	295.3	
308.4	-	198.4	215.0	266.8	-	201.7	206.1	262.4	308.4	
315.0	-	184.1	207.2	257.9	-	190.1	198.4	251.3	315.0	
321.5	-	-	-	-	-	178.6	190.7	240.3	321.5	
331.4	-	-	-	-	-	159.8	180.8	229.3	331.4	

	0 lb	374,800 lb	595,300 lb	815,800 lb	992,100 lb	1,191,000 lb
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# Operation

# LSL\_2, LSL\_21

463 klb +  44.1 klb ZB  49.2-98.4 ft  31.5 ft  32.2 ft/s <b>360°</b> <b>ASME B30.5</b>																			
190.3 ft					210.0 ft					229.7 ft					249.3 ft				
LSL_2		LSL_21			LSL_2		LSL_21			LSL_2		LSL_21			LSL_2		LSL_21		
0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	
49.2 - 78.7 ft		78.7 - 98.4 ft			49.2 - 78.7 ft		78.7 - 98.4 ft			49.2 - 78.7 ft		78.7 - 98.4 ft			49.2 - 78.7 ft		78.7 - 98.4 ft		
ft																			
1,000 lb																			
29.5	1375.7	1433.0	1433.0	1433.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
32.8	1247.8	1433.0	1433.0	1433.0	1188.3	1433.0	1433.0	1433.0	1433.0	1137.6	1433.0	1433.0	1433.0	-	-	-	-	-	
36.1	1131.0	1433.0	1433.0	1433.0	1079.2	1433.0	1433.0	1433.0	1433.0	1036.2	1433.0	1433.0	1433.0	983.3	1433.0	1433.0	1433.0	1433.0	
39.4	1014.1	1433.0	1433.0	1433.0	970.0	1433.0	1433.0	1433.0	1433.0	934.8	1433.0	1433.0	1433.0	897.3	1433.0	1433.0	1433.0	1433.0	
45.9	848.8	1433.0	1433.0	1433.0	815.7	1433.0	1433.0	1433.0	1433.0	789.3	1433.0	1433.0	1433.0	758.4	1433.0	1433.0	1433.0	1433.0	
52.5	725.3	1433.0	1433.0	1433.0	698.9	1433.0	1433.0	1433.0	1433.0	679.0	1433.0	1433.0	1433.0	654.8	1433.0	1433.0	1433.0	1433.0	
59.1	630.5	1433.0	1433.0	1433.0	610.7	1433.0	1433.0	1433.0	1433.0	593.0	1433.0	1433.0	1433.0	573.2	1433.0	1433.0	1433.0	1433.0	
65.6	549.0	1433.0	1433.0	1433.0	537.9	1433.0	1433.0	1433.0	1433.0	524.7	1433.0	1433.0	1433.0	507.1	1433.0	1433.0	1433.0	1433.0	
72.2	474.0	1433.0	1433.0	1433.0	469.6	1433.0	1433.0	1433.0	1433.0	469.6	1433.0	1433.0	1433.0	451.9	1384.5	1433.0	1433.0	1433.0	
78.7	414.5	1422.0	1433.0	1433.0	410.1	1417.6	1433.0	1433.0	1433.0	410.1	1413.2	1433.0	1433.0	405.7	1263.2	1433.0	1433.0	1433.0	
85.3	366.0	1309.5	1347.0	1433.0	363.8	1302.9	1340.4	1433.0	1433.0	361.6	1300.7	1338.2	1433.0	357.1	1159.6	1331.6	1433.0	1433.0	
91.9	326.3	1210.3	1247.8	1406.6	324.1	1205.9	1241.2	1399.9	1433.0	321.9	1201.5	1239.0	1397.7	317.5	1071.4	1230.2	1391.1	1433.0	
98.4	293.2	1126.6	1159.6	1309.5	291.0	1119.9	1153.0	1302.9	1433.0	288.8	1117.7	1150.8	1300.7	284.4	994.3	1142.0	1291.9	1433.0	
111.5	242.5	988.8	1018.5	1151.9	239.2	982.2	1011.9	1145.3	1433.0	237.5	980.0	1009.7	1143.1	232.6	869.7	1002.0	1134.3	1433.0	
124.7	202.8	876.3	902.8	1021.8	198.4	869.7	896.2	1016.3	1433.0	197.3	867.5	894.0	1013.0	191.8	767.2	886.3	1005.3	1433.0	
137.8	172.0	783.7	799.2	907.2	167.0	779.3	802.5	911.6	1433.0	165.9	777.1	800.3	908.3	159.8	682.3	792.6	900.6	1433.0	
150.9	147.2	685.6	720.9	816.8	141.6	704.4	724.2	824.5	1433.0	140.0	701.1	722.0	822.3	133.4	611.8	713.2	813.5	1433.0	
164.0	126.8	586.4	636.0	718.7	120.7	630.5	648.2	743.0	1433.0	118.4	637.1	654.8	749.6	111.6	553.4	646.0	740.8	1433.0	
173.9	113.5	533.5	562.2	637.1	107.4	569.9	602.4	691.7	1433.0	104.9	595.8	608.5	700.5	97.8	515.3	602.4	693.4	1433.0	
177.2	-	-	-	-	103.4	549.0	587.5	673.5	1433.0	100.9	583.1	593.0	684.5	93.8	503.8	589.7	679.0	1433.0	
190.3	-	-	-	-	88.6	487.2	515.9	590.8	1433.0	86.2	521.4	542.3	626.1	78.9	460.8	541.2	626.1	1433.0	
203.4	-	-	-	-	-	-	-	-	1433.0	74.0	449.7	492.4	569.5	66.5	424.4	492.7	573.2	1433.0	
206.7	-	-	-	-	-	-	-	-	1433.0	71.2	436.5	478.4	553.4	63.7	416.1	483.4	562.2	1433.0	
216.5	-	-	-	-	-	-	-	-	1433.0	-	-	-	-	56.1	392.4	455.3	530.2	1433.0	
223.1	-	-	-	-	-	-	-	-	1433.0	-	-	-	-	51.4	377.0	436.5	509.3	1433.0	

	0 lb	110,250 lb	242,500 lb	374,800 lb	595,300 lb	815,800 lb	992,100 lb	1,191,000 lb
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# Operation

# LSL\_2, LSL\_21

463 klb +  44.1 klb ZB  49.2-98.4 ft  31.5 ft  32.2 ft/s <b>360°</b> <b>ASME B30.5</b>																
262.5 ft					282.2 ft				295.3 ft				315.0 ft			
LSL_2		LSL_21			LSL_2		LSL_21		LSL_2		LSL_21		LSL_2		LSL_21	
0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	
49.2 - 78.7 ft		78.7 - 98.4 ft			49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft	
ft																
1,000 lb																
36.1	952.4	1433.0	1433.0	1433.0	-	-	-	-	809.1	1433.0	1433.0	1433.0	-	-	-	-
39.4	868.6	1433.0	1433.0	1433.0	833.3	1433.0	1433.0	1433.0	687.8	1433.0	1433.0	1433.0	776.0	1433.0	1433.0	1433.0
45.9	736.3	1433.0	1433.0	1433.0	709.9	1433.0	1433.0	1433.0	595.2	1433.0	1433.0	1433.0	663.6	1433.0	1433.0	1433.0
52.5	637.1	1433.0	1433.0	1433.0	612.9	1433.0	1433.0	1433.0	522.5	1433.0	1433.0	1433.0	573.2	1433.0	1433.0	1433.0
59.1	557.8	1433.0	1433.0	1433.0	537.9	1433.0	1433.0	1433.0	460.8	1433.0	1433.0	1433.0	502.7	1433.0	1433.0	1433.0
65.6	493.8	1433.0	1433.0	1433.0	476.2	1433.0	1433.0	1433.0	412.3	1433.0	1433.0	1433.0	445.3	1433.0	1433.0	1433.0
72.2	438.7	1433.0	1433.0	1433.0	425.5	1433.0	1433.0	1433.0	368.2	1382.3	1424.2	1433.0	396.8	1433.0	1433.0	1433.0
78.7	394.6	1397.7	1433.0	1433.0	381.4	1388.9	1430.8	1433.0	332.9	1269.9	1307.3	1430.8	354.9	1375.7	1415.4	1433.0
85.3	350.5	1283.1	1322.8	1433.0	343.9	1276.5	1314.0	1433.0	302.0	1172.9	1208.1	1366.9	319.7	1261.0	1298.5	1433.0
91.9	310.9	1186.1	1221.4	1382.3	306.4	1179.5	1214.7	1373.5	269.0	1086.9	1119.9	1269.9	288.8	1164.0	1199.3	1358.0
98.4	277.8	1102.3	1135.4	1283.1	273.4	1093.5	1126.6	1276.5	216.6	949.1	978.9	1112.2	262.4	1078.1	1111.1	1261.0
111.5	226.5	964.5	994.3	1125.5	221.6	955.7	985.5	1118.8	174.2	836.7	863.1	983.3	210.0	941.4	971.1	1103.4
124.7	185.7	852.1	878.5	996.5	179.7	843.3	869.7	989.9	140.0	746.3	769.4	878.5	165.3	828.9	855.4	974.4
137.8	152.7	760.6	784.8	891.8	146.1	752.9	776.0	885.2	112.0	671.3	691.1	791.5	130.1	737.4	761.7	869.7
150.9	125.7	684.5	706.6	804.7	119.2	677.9	697.8	798.1	89.4	607.4	623.9	718.7	103.4	662.5	683.4	782.6
164.0	103.8	621.7	639.3	731.9	97.2	614.0	630.5	725.3	70.4	552.3	566.6	657.0	80.2	599.7	617.3	709.9
177.2	86.0	567.7	582.0	670.2	78.9	558.9	573.2	663.6	53.9	504.9	518.1	603.0	60.4	545.6	560.0	648.2
190.3	71.0	520.3	533.5	617.3	63.1	511.5	524.7	609.6	40.0	464.1	476.2	555.6	44.0	498.2	510.4	594.1
203.4	58.4	478.4	491.6	571.0	49.4	470.7	482.8	562.2	28.5	427.7	439.8	514.8	30.4	456.4	467.4	547.8
216.5	47.6	436.5	448.6	523.6	37.9	435.4	446.4	521.4	26.0	418.9	431.6	505.4	18.7	418.9	431.4	507.1
219.8	45.1	425.5	440.4	514.2	35.3	427.1	438.2	512.0	18.7	395.4	407.1	478.4	15.9	410.1	423.3	497.1
229.7	38.4	386.9	415.6	487.2	28.1	402.3	409.0	483.9	-	388.0	399.0	469.6	-	388.0	399.0	469.6
232.9	36.3	373.1	407.3	478.4	25.8	394.1	400.1	474.5	-	381.4	392.4	460.8	-	380.3	391.3	460.8
236.2	34.2	359.4	399.0	469.6	23.6	385.8	392.4	465.2	-	366.0	373.7	444.2	-	372.6	383.6	451.9
242.8	-	-	-	-	19.8	362.7	379.9	447.5	-	350.5	359.4	427.7	-	359.4	370.4	436.5
249.3	-	-	-	-	16.1	339.5	368.2	432.1	-	340.1	353.8	418.3	-	346.1	357.1	421.1
252.6	-	-	-	-	-	328.5	361.6	425.5	-	329.6	348.3	411.2	-	340.6	350.0	414.5
255.9	-	-	-	-	-	-	-	-	-	308.6	337.3	396.8	-	335.1	342.8	407.9
262.5	-	-	-	-	-	-	-	-	-	-	-	-	-	324.1	328.5	394.6
269.0	-	-	-	-	-	-	-	-	-	-	-	-	-	306.4	317.5	378.1
278.9	-	-	-	-	-	-	-	-	-	-	-	-	-	280.0	302.0	359.4

	0 lb	110,250 lb	242,500 lb	374,800 lb	595,300 lb	815,800 lb	992,100 lb	1,191,000 lb
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# Operation

# LSL\_2, LSL\_21

463 klb + 44.1 klb ZB 49.2-98.4 ft 31.5 ft 32.2 ft/s 360° ASME B30.5															
328.1 ft				347.8 ft				360.9 ft				380.6 ft			
LSL_2		LSL_21		LSL_2		LSL_21		LSL_2		LSL_21		LSL_2		LSL_21	
0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb
49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft	
ft															
								1,000 lb							
42.7	694.5	1399.9	1399.9	1399.9	668.0	1307.3	1307.3	1307.3	-	-	-	-	-	-	-
45.9	643.8	1399.9	1399.9	1399.9	617.3	1307.3	1307.3	1307.3	599.7	1307.3	1307.3	1212.5	575.4	1212.5	1212.5
52.5	557.8	1399.9	1399.9	1399.9	535.7	1307.3	1307.3	1307.3	520.3	1307.3	1307.3	1212.5	500.4	1212.5	1212.5
59.1	487.2	1399.9	1399.9	1399.9	469.6	1307.3	1307.3	1307.3	454.2	1307.3	1307.3	1212.5	436.5	1212.5	1212.5
65.6	429.9	1399.9	1399.9	1399.9	414.5	1307.3	1307.3	1307.3	401.2	1307.3	1307.3	1212.5	385.8	1212.5	1212.5
72.2	383.6	1399.9	1399.9	1399.9	368.2	1307.3	1307.3	1307.3	357.1	1307.3	1307.3	1212.5	341.7	1212.5	1212.5
78.7	343.9	1369.1	1399.9	1399.9	330.7	1307.3	1307.3	1307.3	317.5	1307.3	1307.3	1212.5	304.2	1205.9	1210.3
85.3	308.6	1254.4	1291.9	1399.9	295.4	1247.8	1287.5	1307.3	284.4	1243.4	1280.9	1212.5	273.4	1172.9	1177.3
91.9	277.8	1157.4	1192.7	1351.4	266.8	1150.8	1186.1	1307.3	255.7	1144.2	1179.5	1212.5	244.7	1137.6	1142.0
98.4	253.5	1071.4	1104.5	1254.4	240.3	1067.0	1100.1	1247.8	231.5	1060.4	1093.5	1212.5	219.4	1051.6	1084.7
111.5	196.8	935.9	964.5	1096.8	193.5	929.2	959.0	1092.4	184.1	922.6	952.4	1085.8	168.1	914.9	944.7
124.7	156.5	822.3	848.8	967.8	147.7	816.8	843.3	962.3	138.9	810.2	836.7	956.8	121.4	802.5	828.9
137.8	123.0	730.8	755.1	863.1	110.6	725.3	749.6	856.5	101.5	719.8	743.0	852.1	90.3	711.0	735.2
150.9	93.8	655.9	676.8	776.0	82.7	649.3	671.3	770.5	72.6	643.8	665.8	765.0	65.3	636.0	657.0
164.0	69.9	593.0	610.7	703.3	60.8	586.4	604.1	697.8	50.6	579.8	599.7	691.1	41.8	573.2	590.8
177.2	50.9	539.0	553.4	641.5	41.8	532.4	546.7	634.9	32.2	525.8	542.3	628.3	21.5	518.1	533.5
180.4	46.7	526.4	540.1	627.2	37.3	519.7	533.5	620.6	27.8	513.1	529.1	614.0	16.8	504.9	520.3
190.3	35.2	491.6	503.8	587.5	25.1	485.0	498.2	582.0	15.4	478.4	491.6	574.7	-	471.8	485.0
196.9	27.8	469.6	480.6	562.2	17.4	463.0	476.2	557.8	-	456.4	469.6	551.2	-	449.7	463.0
203.4	21.0	449.0	461.5	540.1	-	443.1	456.4	535.7	-	437.6	449.7	529.1	-	429.9	443.1
206.7	17.6	438.7	451.9	529.1	-	433.2	446.4	524.7	-	428.2	439.8	518.1	-	420.0	433.2
216.5	-	413.4	424.4	500.4	-	406.8	418.9	493.8	-	401.2	412.3	487.2	-	393.5	405.7
229.7	-	381.4	392.4	463.0	-	374.8	385.8	456.4	-	368.2	379.2	449.7	-	360.8	372.6
242.8	-	352.7	363.8	429.9	-	346.1	357.1	423.3	-	339.5	350.5	416.7	-	332.9	342.8
255.9	-	327.4	338.4	401.2	-	320.8	330.7	394.6	-	314.2	325.2	388.0	-	299.8	305.3
269.0	-	305.7	312.0	374.8	-	294.3	303.1	362.7	-	270.1	278.9	339.5	-	240.3	247.7
282.2	-	265.7	282.2	346.1	-	242.0	257.9	315.3	-	196.2	207.2	260.5	-	165.9	170.3
292.0	-	229.3	240.3	304.2	-	193.5	201.4	257.4	-	134.1	141.6	185.2	-	111.5	112.5
295.3	-	-	-	-	-	172.0	180.2	232.6	-	117.9	121.2	162.0	-	93.0	93.9
308.4	-	-	-	-	-	101.0	97.7	135.6	-	42.1	39.4	69.4	-	21.2	19.4
311.7	-	-	-	-	-	-	-	-	-	21.8	19.4	46.3	-	-	27.8
315.0	-	-	-	-	-	-	-	-	-	-	-	23.1	-	-	-

	0 lb	110,250 lb	242,500 lb	374,800 lb	595,300 lb	815,800 lb	992,100 lb	1,191,000 lb
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# Operation

# LSL\_2, LSL\_21

463 klb +  44.1 klb ZB  49.2-98.4 ft  31.5 ft  32.2 ft/s <b>360°</b> <b>ASME B30.5</b>																		
393.7 ft					413.4 ft				433.1 ft				452.8 ft					
LSL_2		LSL_21			LSL_2		LSL_21		LSL_2		LSL_21		LSL_2		LSL_21			
0 lb - 1,191 klb		0 lb - 992.1 klb		0 lb - 1,191 klb	0 lb - 1,191 klb		0 lb - 992.1 klb		0 lb - 1,191 klb	0 lb - 1,191 klb		0 lb - 992.1 klb		0 lb - 1,191 klb	0 lb - 1,191 klb		0 lb - 992.1 klb	
49.2 - 78.7 ft		78.7 - 98.4 ft			49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft		49.2 - 78.7 ft		78.7 - 98.4 ft			
ft										1,000 lb								
49.2	518.1	1117.7	1117.7	1117.7	496.0	1117.7	1117.7	1117.7	-	-	-	-	-	-	-	-	-	
52.5	480.6	1117.7	1117.7	1117.7	463.0	1117.7	1117.7	1117.7	445.3	1020.7	1020.7	1020.7	427.7	948.0	965.6	923.7		
59.1	421.1	1117.7	1117.7	1117.7	403.4	1117.7	1117.7	1117.7	390.2	1020.7	1020.7	1020.7	372.6	948.0	965.6	923.7		
65.6	370.4	1117.7	1117.7	1117.7	354.9	1117.7	1117.7	1117.7	341.7	1020.7	1020.7	1020.7	326.3	948.0	965.6	923.7		
72.2	328.5	1117.7	1117.7	1117.7	313.1	1117.7	1117.7	1117.7	302.0	1020.7	1020.7	1020.7	288.8	948.0	965.6	923.7		
78.7	291.0	1117.7	1117.7	1117.7	277.8	1117.7	1117.7	1117.7	266.8	1020.7	1020.7	1020.7	255.7	948.0	965.6	923.7		
85.3	260.1	1117.7	1117.7	1117.7	246.9	1108.9	1117.7	1117.7	238.1	1020.7	1020.7	1020.7	224.9	948.0	965.6	923.7		
91.9	231.5	1117.7	1117.7	1117.7	220.5	1067.0	1102.3	1106.7	210.5	996.5	1020.7	1007.5	199.5	908.3	965.6	917.1		
98.4	207.2	1045.0	1078.1	1117.7	188.5	1036.2	1058.2	1075.9	179.7	959.0	1000.9	978.9	177.5	886.3	937.0	890.7		
111.5	158.2	907.2	937.0	1051.6	144.4	899.5	929.2	1010.8	133.9	889.6	907.2	918.2	126.4	834.5	855.4	834.5		
124.7	110.1	794.8	821.2	929.2	107.8	787.1	813.5	919.3	98.9	783.7	810.2	842.2	91.3	774.9	789.3	768.3		
137.8	77.9	704.4	727.5	827.8	72.5	695.6	720.9	817.9	65.0	693.4	716.5	769.4	61.0	688.9	712.1	700.0		
150.9	53.5	628.3	650.4	749.6	42.5	620.6	642.6	731.9	35.5	618.4	639.3	709.9	32.2	612.9	634.9	640.1		
157.5	41.2	593.0	615.1	709.9	28.9	586.4	606.3	701.1	21.8	584.2	604.1	683.4	18.7	577.6	599.7	615.1		
160.8	35.8	578.7	599.7	692.8	23.1	571.0	590.8	684.2	15.7	568.8	588.6	668.6	-	563.3	584.2	603.0		
164.0	30.3	564.4	584.2	675.7	17.4	555.6	575.4	667.3	-	554.1	573.2	653.7	-	549.0	568.8	590.8		
170.6	19.4	535.7	553.4	641.5	-	529.1	544.5	634.9	-	524.7	542.3	623.9	-	520.3	537.9	571.0		
177.2	-	510.4	526.9	613.6	-	503.8	518.1	606.3	-	500.4	515.9	595.2	-	494.9	511.5	553.4		
190.3	-	463.0	477.3	560.0	-	456.4	469.6	552.3	-	454.2	466.3	542.3	-	448.6	461.9	518.1		
203.4	-	422.2	434.3	513.7	-	414.5	427.7	506.0	-	412.3	424.0	493.8	-	407.9	418.9	479.9		
216.5	-	385.8	396.8	468.1	-	378.1	390.2	460.0	-	374.8	385.8	455.3	-	370.4	381.4	438.7		
229.7	-	352.7	363.8	426.6	-	346.1	357.1	420.0	-	342.8	352.7	409.0	-	337.3	348.3	389.1		
242.8	-	324.1	335.1	390.2	-	317.5	327.4	380.3	-	313.8	324.1	359.4	-	308.6	319.7	339.5		
255.9	-	298.7	309.7	361.6	-	291.0	300.9	345.0	-	287.7	298.7	319.7	-	283.3	293.2	298.7		
269.0	-	276.3	285.5	337.3	-	269.0	277.8	318.9	-	264.6	274.1	292.1	-	260.1	269.0	264.6		
282.2	-	254.6	263.5	317.5	-	248.0	256.8	296.5	-	243.6	252.4	269.0	-	239.2	248.0	240.3		
295.3	-	236.4	245.0	299.3	-	229.3	238.1	278.3	-	224.9	234.0	249.1	-	220.6	229.3	220.5		
308.4	-	219.9	227.9	280.5	-	211.6	220.5	261.8	-	208.6	216.9	231.5	-	203.6	211.6	202.8		
321.5	-	204.3	208.9	262.4	-	197.0	203.9	247.9	-	193.5	200.6	216.6	-	187.9	195.1	186.8		
334.6	-	186.1	194.3	244.7	-	183.3	188.5	236.5	-	179.1	185.7	204.5	-	173.6	180.4	172.5		
347.8	-	164.2	180.8	227.1	-	166.6	173.4	222.0	-	165.1	170.6	193.5	-	160.4	167.0	160.7		
360.9	-	-	-	-	-	147.1	160.8	203.1	-	151.3	157.1	185.7	-	148.3	154.9	151.3		
364.2	-	-	-	-	-	142.2	157.6	198.4	-	147.8	154.0	183.8	-	145.2	151.8	148.9		
374.0	-	-	-	-	-	-	-	-	-	134.7	145.7	178.8	-	135.6	140.0	143.6		
383.9	-	-	-	-	-	-	-	-	-	120.2	137.8	174.2	-	124.6	131.3	139.0		
387.1	-	-	-	-	-	-	-	-	-	-	-	-	-	120.2	128.7	137.5		
400.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	103.0	119.0	133.4	

	0 lb	110,250 lb	242,500 lb	374,800 lb	595,300 lb	815,800 lb	992,100 lb	1,191,000 lb
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# Operation

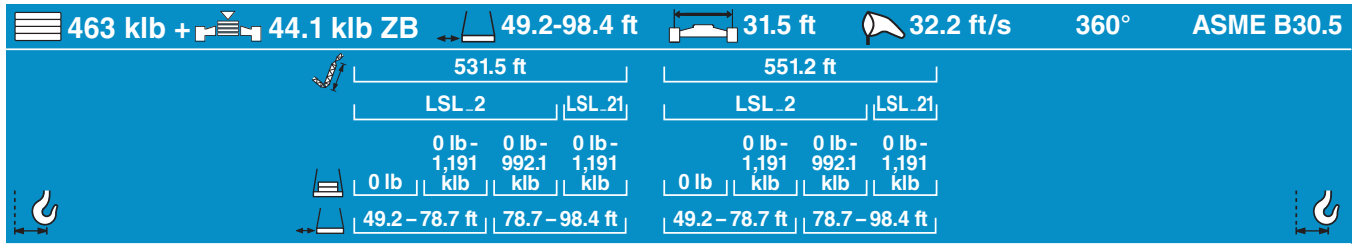
# LSL\_2, LSL\_21

463 klb +  44.1 klb ZB  49.2-98.4 ft  31.5 ft  32.2 ft/s 360° ASME B30.5													
472.4 ft				492.1 ft				511.8 ft					
LSL_2		LSL_21		LSL_2		LSL_21		LSL_2		LSL_21			
0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb	0 lb	0 lb - 1,191 klb	0 lb - 992.1 klb	0 lb - 1,191 klb		
49.2-78.7 ft		78.7-98.4 ft		49.2-78.7 ft		78.7-98.4 ft		49.2-78.7 ft		78.7-98.4 ft			
ft	1,000 lb											ft	
55.8	383.6	868.6	877.4	886.3	374.8	787.1	795.9	804.7	-	-	-	-	55.8
59.1	359.4	868.6	877.4	884.1	350.5	787.1	795.9	802.5	337.3	714.3	720.9	723.1	59.1
65.6	315.3	868.6	877.4	881.8	306.4	787.1	793.7	795.9	295.4	714.3	718.7	714.3	65.6
72.2	277.8	868.6	877.4	873.0	271.2	787.1	793.7	789.3	260.1	714.3	714.3	705.5	72.2
78.7	244.7	868.6	873.0	855.4	238.1	787.1	789.3	773.8	229.3	714.3	709.9	692.3	78.7
85.3	216.1	868.6	868.6	840.0	210.5	787.1	780.4	760.6	201.7	712.1	701.1	676.8	85.3
91.9	190.7	846.6	862.0	824.5	186.3	787.1	773.8	745.2	177.5	705.5	692.3	661.4	91.9
98.4	168.7	826.7	846.6	795.9	164.2	749.6	762.8	725.3	156.5	701.1	681.2	646.0	98.4
111.5	130.1	763.9	809.1	741.9	127.9	697.8	736.3	680.1	120.5	644.9	657.0	605.2	111.5
124.7	89.5	704.4	744.1	682.0	90.2	665.8	709.9	633.5	85.2	605.2	630.5	564.4	124.7
137.8	50.7	663.6	666.9	618.4	51.6	615.1	648.2	579.8	48.7	557.8	601.9	520.3	137.8
150.9	20.3	608.5	621.7	564.4	20.1	562.2	584.2	526.2	16.5	527.6	565.5	474.0	150.9
164.0	-	546.7	566.6	520.3	-	530.2	532.4	479.5	-	485.0	520.3	433.2	164.0
177.2	-	492.7	509.3	481.7	-	490.5	498.2	444.2	-	443.1	475.1	400.1	177.2
190.3	-	445.3	459.7	454.2	-	443.1	458.6	416.7	-	419.6	434.3	373.7	190.3
203.4	-	405.7	417.4	423.3	-	403.4	415.9	391.3	-	394.6	401.2	349.4	203.4
216.5	-	368.2	379.2	393.5	-	367.1	379.2	368.2	-	364.9	373.7	329.6	216.5
229.7	-	335.1	346.1	359.4	-	335.1	346.1	347.2	-	332.2	343.9	310.9	229.7
242.8	-	306.4	317.5	315.3	-	305.3	316.4	321.1	-	304.2	314.2	293.2	242.8
255.9	-	281.1	291.0	273.4	-	278.9	288.8	276.7	-	277.8	287.3	265.7	255.9
269.0	-	257.9	266.8	239.2	-	255.7	265.7	239.2	-	253.5	263.5	228.2	269.0
282.2	-	236.6	245.8	211.6	-	235.9	243.6	206.7	-	233.0	241.4	194.6	282.2
295.3	-	218.3	227.1	191.8	-	216.3	224.9	182.7	-	214.1	222.7	168.7	295.3
308.4	-	200.6	209.4	174.2	-	199.2	207.2	164.5	-	197.0	205.0	146.6	308.4
321.5	-	184.6	193.2	158.2	-	183.5	191.0	148.0	-	181.1	186.6	129.6	321.5
334.6	-	170.3	178.3	143.9	-	169.2	176.1	133.1	-	166.2	167.3	115.4	334.6
347.8	-	157.1	164.5	131.2	-	155.7	162.3	119.8	-	150.3	149.4	102.1	347.8
360.9	-	145.0	151.8	120.2	-	143.0	149.6	108.0	-	133.4	132.8	89.9	360.9
374.0	-	132.9	138.6	110.9	-	131.5	138.1	97.7	-	119.3	118.3	78.9	374.0
387.1	-	122.2	125.4	103.4	-	121.0	127.6	88.8	-	106.6	105.7	69.2	387.1
400.3	-	108.8	115.6	97.2	-	109.8	115.1	81.2	-	95.7	94.7	60.7	400.3
413.4	-	92.7	106.4	92.3	-	97.9	100.5	74.7	-	86.4	85.4	53.5	413.4
416.7	-	88.6	104.1	91.1	-	94.9	97.2	73.1	-	84.1	83.0	51.6	416.7
426.5	-	-	-	-	-	84.5	91.3	69.4	-	78.1	77.0	47.2	426.5
433.1	-	-	-	-	-	77.2	87.5	67.5	-	74.4	73.3	44.6	433.1
439.6	-	-	-	-	-	-	-	-	-	70.7	69.6	42.1	439.6
449.5	-	-	-	-	-	-	-	-	-	64.2	64.4	38.6	449.5

	0 lb	110,250 lb	242,500 lb	374,800 lb	595,300 lb	815,800 lb	992,100 lb	1,191,000 lb
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# Operation

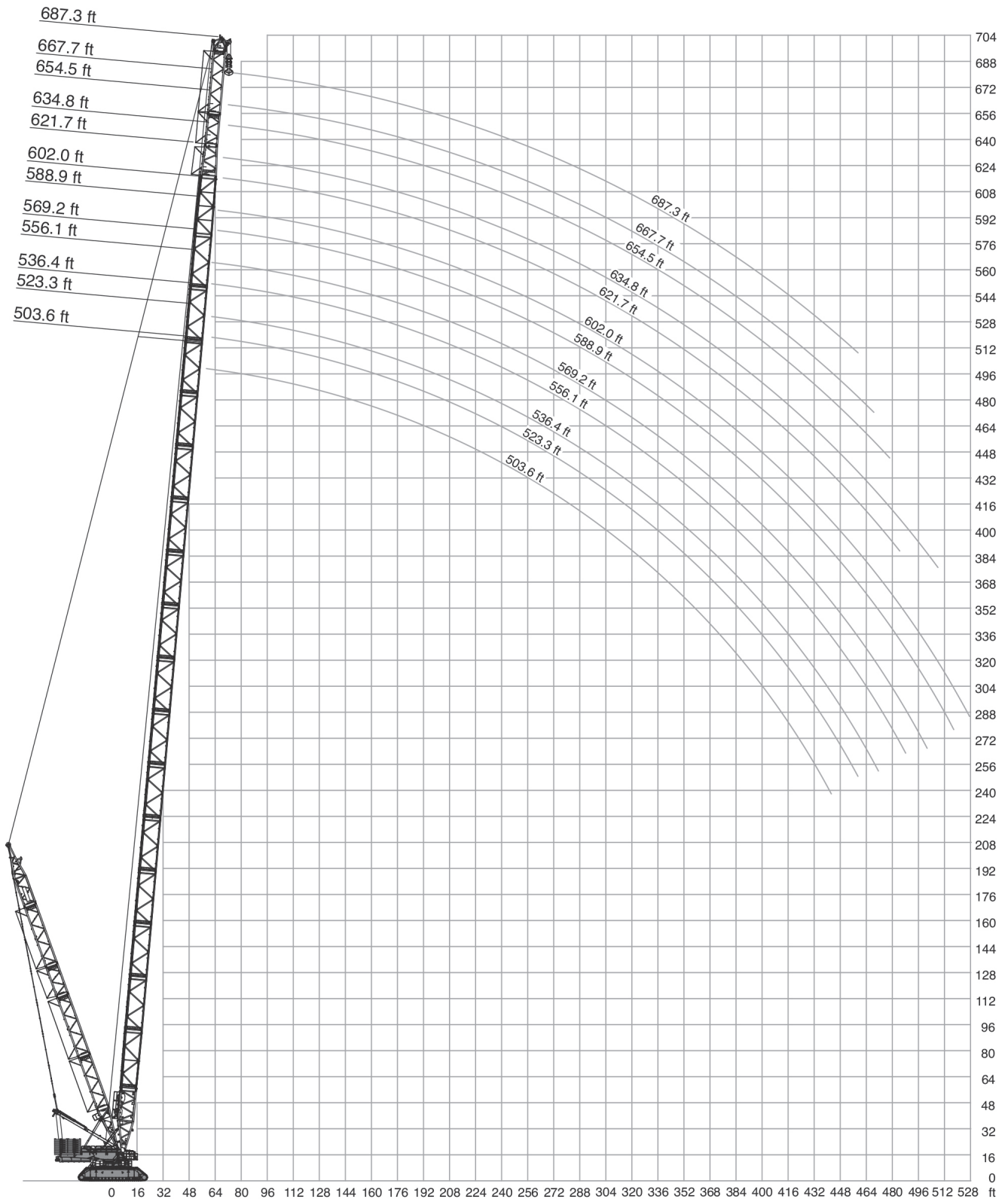
# LSL\_2, LSL\_21



ft	1,000 lb								ft
59.1	326.3	639.3	632.7	621.7	-	-	-	-	59.1
62.3	306.4	636.0	628.3	615.1	293.2	560.0	549.0	533.5	62.3
65.6	286.6	632.7	623.9	608.5	275.6	555.6	544.5	524.7	65.6
72.2	251.3	626.1	615.1	593.0	240.3	546.7	533.5	509.3	72.2
78.7	222.7	617.3	606.3	579.8	211.6	535.7	522.5	491.6	78.7
85.3	195.1	608.5	595.2	562.2	186.3	524.7	509.3	474.0	85.3
91.9	172.0	597.5	582.0	542.3	163.1	511.5	496.0	456.4	91.9
98.4	151.0	586.4	568.8	524.7	142.2	498.2	480.6	436.5	98.4
111.5	116.3	564.4	540.1	487.2	108.7	471.8	453.1	402.3	111.5
124.7	83.9	526.9	509.3	450.8	78.6	445.3	423.3	369.3	124.7
137.8	50.2	470.7	477.3	413.4	47.5	417.4	393.5	338.4	137.8
150.9	18.1	439.8	444.2	379.2	15.7	389.1	363.8	312.0	150.9
164.0	-	409.0	410.1	347.2	-	359.4	334.4	288.1	164.0
177.2	-	375.9	381.4	320.8	-	317.5	309.7	265.7	177.2
190.3	-	338.4	356.0	298.7	-	285.5	287.7	245.8	190.3
203.4	-	317.5	331.8	278.9	-	266.8	269.0	227.1	203.4
216.5	-	299.8	312.0	263.5	-	251.3	252.8	212.7	216.5
229.7	-	283.3	294.3	246.9	-	235.9	238.1	199.0	229.7
242.8	-	267.9	278.9	233.7	-	219.4	225.4	184.1	242.8
255.9	-	255.7	264.6	215.5	-	208.3	213.3	169.8	255.9
269.0	-	237.0	245.8	188.5	-	195.1	199.5	153.2	269.0
282.2	-	213.8	222.1	159.3	-	173.1	178.0	130.6	282.2
295.3	-	190.1	198.0	135.0	-	149.6	154.0	109.2	295.3
308.4	-	167.0	172.0	113.9	-	127.0	131.5	89.6	308.4
321.5	-	144.7	146.4	97.4	-	108.1	109.9	72.9	321.5
334.6	-	123.2	123.2	84.2	-	88.8	89.4	59.4	334.6
347.8	-	105.2	105.2	71.9	-	72.3	72.7	47.4	347.8
360.9	-	90.8	90.8	60.4	-	58.3	58.4	36.8	360.9
374.0	-	78.3	77.7	50.0	-	46.7	46.3	26.9	374.0
387.1	-	66.5	65.9	40.6	-	36.4	36.2	17.6	387.1
390.4	-	63.6	62.9	38.3	-	33.9	33.6	15.4	390.4
400.3	-	56.1	55.4	32.2	-	27.0	26.7	-	400.3
413.4	-	47.1	46.4	24.9	-	18.5	18.0	-	413.4
416.7	-	44.8	44.1	23.0	-	16.3	15.9	-	416.7
426.5	-	39.0	38.4	18.1	-	-	-	-	426.5
429.8	-	37.3	36.6	16.5	-	-	-	-	429.8
439.6	-	32.0	31.3	-	-	-	-	-	439.6
452.8	-	25.4	24.8	-	-	-	-	-	452.8
465.9	-	19.4	18.7	-	-	-	-	-	465.9
469.2	-	17.9	17.2	-	-	-	-	-	469.2







# Operation

LSL\_4

551.2 klb + 132.3 klb ZB														31.5 ft		32.2 ft/s		360°		ASME B30.5	
503.6 ft		523.3 ft		536.4 ft		556.1 ft		569.2 ft		588.9 ft											
0 lb		0 lb - 1,191klb		0 lb		0 lb - 1,191klb		0 lb		0 lb - 1,191klb		0 lb - 1,191klb									
1,000 lb																					
ft													ft								
59.1	385.8	824.5	374.8	731.9	-	-	-	-	-	-	-	-	59.1								
62.3	362.7	824.5	352.7	731.9	332.9	754.0	321.9	696.7	306.4	661.4	-	-	62.3								
65.6	339.5	824.5	330.7	731.9	310.9	754.0	302.0	696.7	286.6	661.4	277.8	553.4	65.6								
72.2	299.8	824.5	291.0	731.9	273.4	754.0	264.6	696.7	249.1	661.4	242.5	553.4	72.2								
78.7	264.6	811.3	257.9	731.9	240.3	745.2	233.7	681.2	218.3	650.4	211.6	553.4	78.7								
85.3	233.7	782.6	229.3	731.9	210.5	720.9	205.0	659.2	190.7	626.1	184.1	553.4	85.3								
91.9	208.3	754.0	202.8	716.5	185.2	694.5	179.7	634.9	166.4	601.9	160.9	553.4	91.9								
98.4	184.1	720.9	179.7	690.0	162.0	670.2	157.6	610.7	144.4	577.6	138.9	553.4	98.4								
111.5	144.4	654.8	140.0	628.3	125.1	609.9	121.0	557.8	106.0	526.2	99.8	526.9	111.5								
124.7	108.2	593.8	104.1	571.7	87.2	553.4	83.8	507.1	68.2	476.9	62.3	490.9	124.7								
137.8	75.4	537.9	72.1	520.3	48.1	500.4	45.9	458.6	30.9	429.9	26.5	447.5	137.8								
141.1	67.5	526.9	64.0	509.3	40.6	488.9	38.4	448.1	22.9	418.9	18.7	436.5	141.1								
150.9	43.8	493.8	39.9	476.2	18.1	454.2	15.9	416.7	-	389.8	-	407.4	150.9								
160.8	21.7	462.2	17.0	443.9	-	425.5	-	390.6	-	362.3	-	379.2	160.8								
164.0	15.4	452.7	-	435.8	-	416.7	-	382.1	-	354.2	-	370.4	164.0								
177.2	-	421.1	-	403.4	-	383.6	-	348.3	-	321.9	-	337.3	177.2								
190.3	-	392.9	-	374.8	-	354.9	-	324.1	-	297.6	-	310.9	190.3								
203.4	-	368.2	-	350.5	-	330.7	-	302.8	-	274.1	-	288.8	203.4								
216.5	-	346.1	-	328.5	-	308.6	-	282.2	-	253.5	-	271.2	216.5								
229.7	-	326.3	-	309.1	-	289.5	-	261.6	-	237.4	-	251.3	229.7								
242.8	-	310.4	-	293.2	-	272.6	-	246.2	-	221.6	-	231.5	242.8								
255.9	-	297.6	-	277.8	-	257.9	-	231.5	-	208.3	-	216.1	255.9								
269.0	-	282.9	-	264.6	-	246.9	-	220.5	-	197.3	-	203.6	269.0								
282.2	-	262.4	-	250.2	-	235.9	-	210.5	-	187.0	-	192.5	282.2								
295.3	-	235.9	-	231.5	-	224.9	-	201.7	-	178.6	-	183.0	295.3								
308.4	-	207.2	-	205.8	-	215.3	-	192.5	-	170.5	-	174.9	308.4								
321.5	-	183.3	-	181.1	-	203.9	-	185.2	-	162.3	-	166.4	321.5								
334.6	-	162.3	-	157.4	-	190.7	-	178.6	-	156.3	-	159.0	334.6								
347.8	-	144.7	-	137.5	-	177.5	-	170.9	-	149.9	-	152.9	347.8								
360.9	-	129.8	-	121.5	-	164.2	-	162.0	-	144.0	-	147.2	360.9								
374.0	-	116.9	-	107.3	-	149.4	-	149.4	-	136.4	-	138.6	374.0								
387.1	-	106.0	-	94.9	-	135.0	-	137.2	-	127.0	-	127.0	387.1								
400.3	-	96.5	-	84.3	-	123.7	-	125.7	-	117.3	-	116.0	400.3								
413.4	-	89.2	-	75.8	-	115.5	-	114.8	-	107.1	-	105.4	413.4								
426.5	-	83.1	-	68.0	-	107.0	-	105.2	-	97.9	-	95.4	426.5								
439.6	-	78.4	-	61.6	-	98.4	-	96.8	-	88.2	-	86.2	439.6								
442.9	-	77.2	-	60.0	-	96.3	-	94.7	-	85.8	-	83.9	442.9								
452.8	-	-	-	56.5	-	88.9	-	87.9	-	78.4	-	77.2	452.8								
459.3	-	-	-	54.7	-	83.8	-	83.2	-	73.4	-	72.9	459.3								
465.9	-	-	-	-	-	78.7	-	78.5	-	68.5	-	68.5	465.9								
472.4	-	-	-	-	-	73.6	-	73.9	-	63.5	-	64.2	472.4								
479.0	-	-	-	-	-	-	-	69.2	-	58.8	-	59.4	479.0								
488.8	-	-	-	-	-	-	-	62.2	-	51.7	-	52.2	488.8								
492.1	-	-	-	-	-	-	-	-	-	49.4	-	50.0	492.1								
502.0	-	-	-	-	-	-	-	-	-	42.8	-	43.3	502.0								
518.4	-	-	-	-	-	-	-	-	-	-	-	32.8	518.4								

 0 lb  
  815,800 lb  
  992,100 lb  
  1,191,000 lb

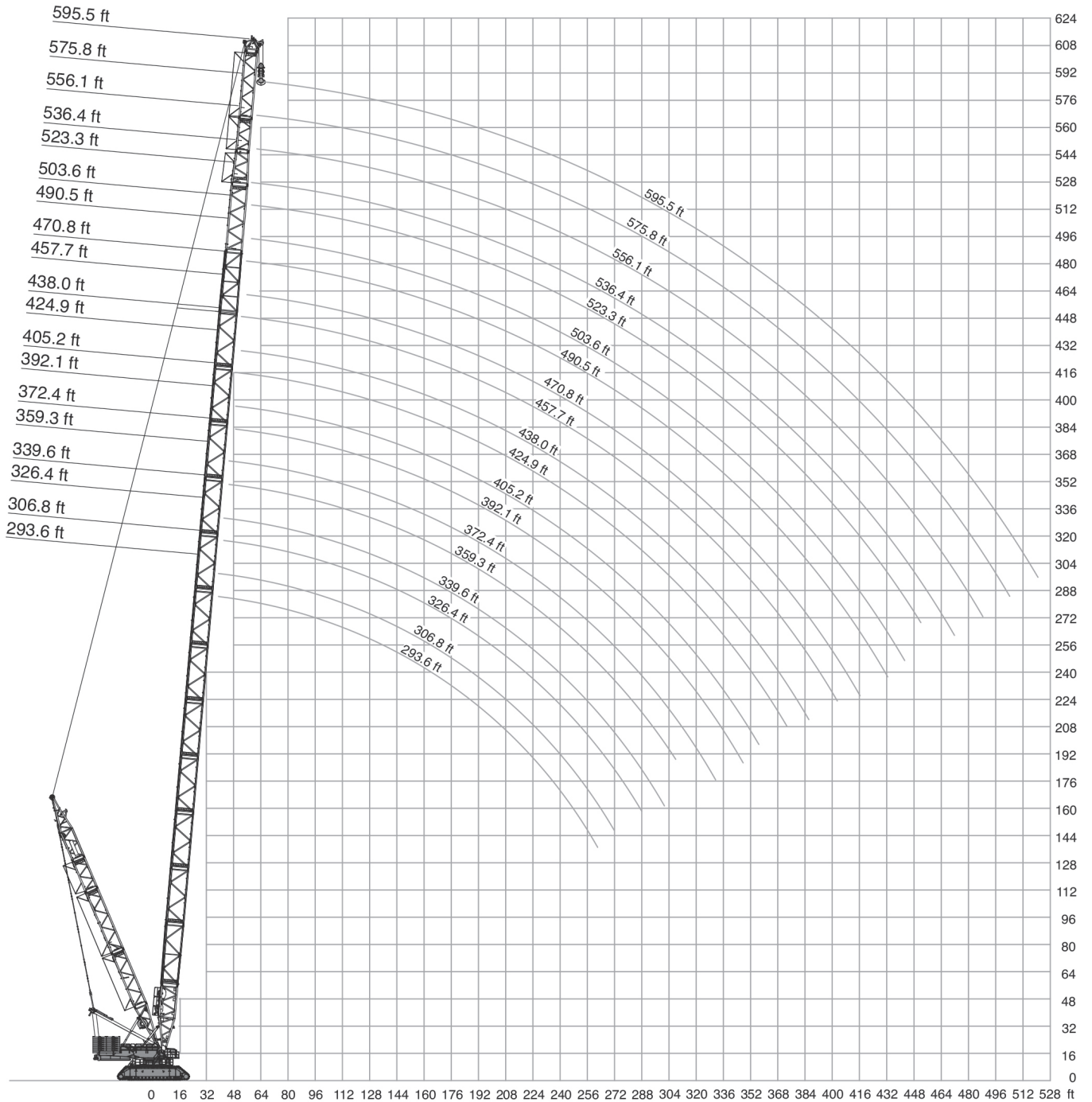
# Operation

LSL\_4

551.2 klb + 132.3 klb ZB														31.5 ft		32.2 ft/s		360°		ASME B30.5	
602.0 ft		621.7 ft		634.8 ft		654.5 ft		667.7 ft		687.3 ft											
0 lb		0 lb - 1,191klb		0 lb		0 lb - 1,191klb		0 lb		0 lb - 1,191klb		0 lb - 1,191klb									
1,000 lb																					
ft													ft								
65.6	262.4	553.4	-	-	-	-	-	-	-	-	-	-	65.6								
68.9	244.7	553.4	235.9	544.5	220.5	496.0	-	-	-	-	-	-	68.9								
72.2	227.1	553.4	220.5	544.5	203.9	496.0	197.3	476.2	181.9	445.3	-	-	72.2								
75.5	211.6	553.4	205.0	540.1	189.6	496.0	183.0	472.9	167.6	445.3	160.9	407.9	75.5								
78.7	196.2	553.4	189.6	535.7	175.3	496.0	168.7	469.6	153.2	445.3	147.7	407.9	78.7								
85.3	169.8	553.4	164.2	520.3	149.9	496.0	143.3	454.2	129.0	445.3	117.9	407.9	85.3								
91.9	146.6	553.4	141.1	502.7	126.8	496.0	121.3	438.7	102.5	440.9	83.6	407.9	91.9								
98.4	124.6	553.4	120.2	482.8	105.4	491.6	100.3	423.3	75.0	427.7	53.8	396.8	98.4								
108.3	90.4	524.7	86.2	454.2	68.2	466.3	63.7	399.0	38.3	406.2	16.8	377.0	108.3								
111.5	79.0	515.1	74.9	444.6	55.9	457.8	51.5	391.0	26.0	399.0	-	371.1	111.5								
121.4	46.6	485.0	42.2	416.7	20.7	432.1	16.8	366.0	-	378.5	-	352.7	121.4								
124.7	37.0	474.0	32.1	407.9	-	423.3	-	358.0	-	371.1	-	346.1	124.7								
128.0	27.4	463.0	22.0	399.0	-	414.5	-	350.1	-	363.8	-	339.5	128.0								
131.2	17.9	451.9	-	390.2	-	405.7	-	342.2	-	356.4	-	332.9	131.2								
137.8	-	434.3	-	372.6	-	388.0	-	326.3	-	341.7	-	319.7	137.8								
150.9	-	396.8	-	337.3	-	354.5	-	298.1	-	313.1	-	294.7	150.9								
164.0	-	360.8	-	306.4	-	324.8	-	271.9	-	287.3	-	269.7	164.0								
177.2	-	330.7	-	280.0	-	297.6	-	246.9	-	262.4	-	244.7	177.2								
190.3	-	307.2	-	257.9	-	273.4	-	224.1	-	241.2	-	224.2	190.3								
203.4	-	285.1	-	238.1	-	250.6	-	203.9	-	221.9	-	206.5	203.4								
216.5	-	266.8	-	217.2	-	231.5	-	186.3	-	202.8	-	189.6	216.5								
229.7	-	249.1	-	202.5	-	213.1	-	171.6	-	188.1	-	174.5	229.7								
242.8	-	232.6	-	188.9	-	196.9	-	159.5	-	174.5	-	162.4	242.8								
255.9	-	217.2	-	176.4	-	183.0	-	147.7	-	162.0	-	152.1	255.9								
269.0	-	204.3	-	165.3	-	172.0	-	136.0	-	150.8	-	141.1	269.0								
282.2	-	194.0	-	155.4	-	161.3	-	124.2	-	140.7	-	130.4	282.2								
295.3	-	185.2	-	146.6	-	151.0	-	115.7	-	133.4	-	120.2	295.3								
308.4	-	176.7	-	138.2	-	141.8	-	107.8	-	125.3	-	113.1	308.4								
321.5	-	169.2	-	130.9	-	134.2	-	99.8	-	116.8	-	106.0	321.5								
334.6	-	160.4	-	123.7	-	127.0	-	93.6	-	109.5	-	98.8	334.6								
347.8	-	150.5	-	117.1	-	120.0	-	87.6	-	103.4	-	92.2	347.8								
360.9	-	140.5	-	110.9	-	113.2	-	81.6	-	97.6	-	86.4	360.9								
374.0	-	129.8	-	104.8	-	106.2	-	75.9	-	90.5	-	80.4	374.0								
387.1	-	118.2	-	98.7	-	98.9	-	71.0	-	82.3	-	73.5	387.1								
400.3	-	107.4	-	91.9	-	90.9	-	66.4	-	74.0	-	65.6	400.3								
413.4	-	97.0	-	84.0	-	82.3	-	62.1	-	65.4	-	56.5	413.4								
426.5	-	86.8	-	74.0	-	73.1	-	55.2	-	55.2	-	46.7	426.5								
439.6	-	77.0	-	65.2	-	63.1	-	45.7	-	43.5	-	36.6	439.6								
452.8	-	67.3	-	56.3	-	53.6	-	36.3	-	31.6	-	24.8	452.8								
459.3	-	62.5	-	53.4	-	48.9	-	31.5	-	25.5	-	18.1	459.3								
465.9	-	57.8	-	48.9	-	44.3	-	26.8	-	19.4	-	-	465.9								
469.2	-	55.3	-	46.8	-	42.0	-	24.4	-	16.3	-	-	469.2								
479.0	-	48.2	-	40.7	-	35.4	-	17.4	-	-	-	-	479.0								
485.6	-	43.5	-	36.8	-	31.2	-	-	-	-	-	-	485.6								
492.1	-	38.9	-	-	-	27.0	-	-	-	-	-	-	492.1								
508.5	-	27.9	-	-	-	16.1	-	-	-	-	-	-	508.5								
518.4	-	21.6	-	-	-	-	-	-	-	-	-	-	518.4								
528.2	-	15.7	-	-	-	-	-	-	-	-	-	-	528.2								


 0 lb  
  815,800 lb  
  992,100 lb  
  1,191,000 lb





# Operation

LSL\_6

551.2 klb + 132.3 klb ZB											31.5 ft		32.2 ft/s		360°		ASME B30.5	
293.6 ft		306.8 ft		326.4 ft		339.6 ft		359.3 ft		372.4 ft		392.1 ft		405.2 ft		424.9 ft		
0 lb - 1,191 klb		0 lb - 1,191 klb		0 lb - 1,191 klb		0 lb - 1,191 klb		0 lb - 1,191 klb		0 lb - 1,191 klb		0 lb - 1,191 klb		0 lb - 1,191 klb		0 lb - 1,191 klb		
ft											1,000 lb							
39.4	881.8	1287.5	851.0	1285.3	-	-	-	-	-	-	-	-	-	-	-	-	-	
42.7	817.9	1287.5	789.3	1285.3	760.6	1261.0	731.9	1263.2	-	-	-	-	-	-	-	-	-	
45.9	754.0	1287.5	727.5	1285.3	705.5	1261.0	679.0	1263.2	659.2	1212.5	637.1	1212.5	-	-	-	-	-	
49.2	703.3	1287.5	679.0	1285.3	659.2	1261.0	633.8	1263.2	616.2	1212.5	595.2	1212.5	573.2	1117.7	553.4	1117.7	537.9	1020.7
52.5	652.6	1287.5	630.5	1285.3	612.9	1261.0	588.6	1263.2	573.2	1212.5	553.4	1212.5	535.7	1117.7	518.1	1117.7	502.7	1020.7
59.1	573.2	1287.5	553.4	1285.3	537.9	1261.0	515.9	1263.2	502.7	1212.5	485.0	1212.5	471.8	1117.7	454.2	1117.7	440.9	1020.7
65.6	509.3	1287.5	489.4	1285.3	476.2	1261.0	456.4	1263.2	445.3	1212.5	429.9	1212.5	416.7	1117.7	401.2	1117.7	390.2	1020.7
72.2	454.2	1287.5	436.5	1285.3	425.5	1261.0	407.9	1263.2	396.8	1212.5	381.4	1212.5	370.4	1117.7	354.9	1117.7	346.1	1020.7
78.7	410.1	1287.5	392.4	1285.3	383.6	1261.0	363.8	1263.2	357.1	1212.5	341.7	1212.5	330.7	1117.7	317.5	1117.7	308.6	1009.7
85.3	370.4	1287.5	352.7	1285.3	346.1	1261.0	328.5	1263.2	321.9	1212.5	306.4	1212.5	297.6	1117.7	284.4	1117.7	275.6	976.6
91.9	332.9	1287.5	319.7	1285.3	313.1	1261.0	297.6	1263.2	291.0	1212.5	275.6	1212.5	269.0	1117.7	253.5	1117.7	249.1	941.4
98.4	297.6	1265.5	286.6	1250.0	284.4	1250.0	269.0	1236.8	262.4	1175.1	249.1	1212.5	242.5	1117.7	229.3	1082.5	222.7	906.1
111.5	244.0	1112.6	232.2	1098.6	231.5	1097.2	219.0	1085.4	214.6	1063.4	206.5	1070.0	196.9	1036.9	185.2	1008.2	181.5	837.0
124.7	198.0	981.8	185.9	967.8	185.6	966.4	174.5	954.6	172.7	953.1	164.2	944.3	154.3	942.1	142.3	923.0	139.1	774.6
137.8	159.8	873.0	147.7	857.6	146.6	857.6	135.6	844.4	136.7	844.4	122.4	835.6	114.6	833.3	100.5	824.5	95.5	718.7
150.9	132.6	789.3	119.9	775.3	119.1	775.3	108.1	762.1	107.9	762.1	91.6	753.2	88.5	751.0	75.5	742.2	70.6	674.6
164.0	108.8	715.8	95.8	702.5	95.0	701.8	83.8	688.6	81.9	688.6	66.0	679.8	63.9	677.6	51.7	668.7	47.3	634.2
177.2	88.2	652.6	75.2	639.3	74.3	637.1	62.6	623.9	58.6	623.9	45.4	615.1	41.0	612.9	29.1	604.1	25.4	597.5
183.7	80.4	626.8	67.3	613.6	66.3	611.4	54.2	598.9	50.2	598.2	36.6	589.4	31.7	586.4	19.2	577.6	15.7	577.6
190.3	72.6	601.1	59.5	587.9	58.3	585.7	45.9	573.9	41.7	572.5	27.8	563.6	22.5	560.0	-	552.3	-	552.3
193.6	68.7	588.3	55.5	575.0	54.3	572.8	41.7	561.4	37.5	559.6	23.4	550.8	17.9	546.7	-	539.6	-	539.6
196.9	64.8	575.4	51.6	562.2	50.3	560.0	37.5	549.0	33.3	546.7	19.0	537.9	-	535.7	-	526.9	-	526.9
203.4	58.7	554.8	45.4	540.9	44.1	539.4	30.6	527.6	26.4	525.6	-	516.6	-	514.4	-	506.3	-	505.6
213.3	49.6	524.0	36.2	508.9	34.8	508.5	20.2	495.7	16.1	493.8	-	484.6	-	482.4	-	475.5	-	473.6
216.5	46.5	513.7	33.1	498.2	31.7	498.2	16.8	485.0	-	482.8	-	474.0	-	471.8	-	465.2	-	463.0
229.7	36.8	478.4	23.4	464.4	21.2	463.0	-	449.7	-	449.0	-	440.2	-	436.5	-	429.9	-	427.7
236.2	32.0	460.8	18.5	447.5	15.9	445.3	-	432.1	-	432.1	-	423.3	-	418.9	-	412.3	-	412.3
239.5	30.1	453.4	16.3	438.7	-	438.0	-	424.8	-	418.5	-	415.4	-	411.7	-	404.5	-	404.5
242.8	28.3	446.1	-	431.7	-	430.6	-	417.4	-	404.9	-	407.4	-	404.5	-	396.8	-	396.8
255.9	20.9	416.7	-	403.4	-	401.2	-	388.0	-	350.5	-	377.0	-	374.8	-	366.0	-	366.0
262.5	17.4	405.7	-	391.1	-	388.0	-	343.2	-	320.8	-	364.5	-	362.3	-	353.5	-	353.5
269.0	-	-	-	378.8	-	374.8	-	298.4	-	291.0	-	352.0	-	349.8	-	341.0	-	341.0
272.3	-	-	-	372.6	-	368.2	-	275.9	-	267.9	-	345.8	-	343.6	-	334.7	-	334.7
282.2	-	-	-	-	-	313.1	-	200.0	-	201.0	-	328.5	-	326.3	-	317.5	-	316.7
288.7	-	-	-	-	-	266.8	-	142.0	-	157.3	-	317.5	-	315.3	-	306.4	-	305.0
295.3	-	-	-	-	-	-	-	86.0	-	114.6	-	306.4	-	304.2	-	295.4	-	293.2
301.8	-	-	-	-	-	-	-	29.8	-	73.1	-	296.9	-	294.7	-	284.4	-	283.7
308.4	-	-	-	-	-	-	-	-	-	32.6	-	287.3	-	285.1	-	275.6	-	274.1
321.5	-	-	-	-	-	-	-	-	-	-	-	269.8	-	266.8	-	258.5	-	256.3
331.4	-	-	-	-	-	-	-	-	-	-	-	257.9	-	254.6	-	246.1	-	243.9
334.6	-	-	-	-	-	-	-	-	-	-	-	-	-	250.6	-	242.0	-	239.8
347.8	-	-	-	-	-	-	-	-	-	-	-	-	-	235.9	-	226.6	-	224.6
357.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	216.1	-	214.3
360.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	210.8
374.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	198.4


 0 lb  
  374,800 lb  
  595,300 lb  
  815,800 lb  
  992,100 lb  
  1,191,000 lb

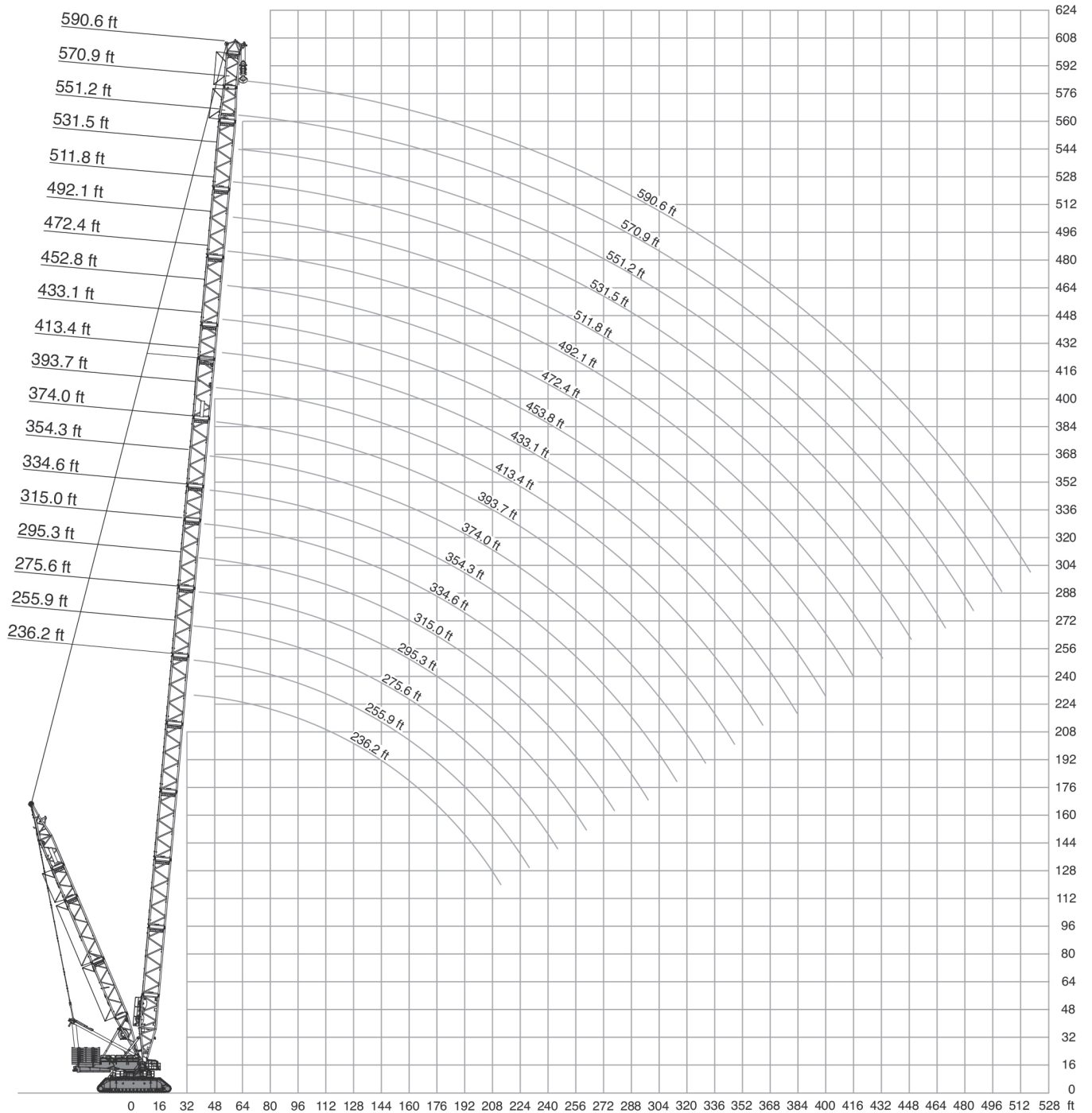
# Operation

LSL\_6

		551.2 klb + 132.3 klb ZB		31.5 ft		32.2 ft/s		360°		ASME B30.5	
		438.0 ft	457.7 ft	470.8 ft	490.5 ft	503.6 ft	523.3 ft	536.4 ft	556.1 ft	575.8 ft	595.5 ft
		0 lb - 1,191 klb	0 lb - 1,191 klb	0 lb - 1,191 klb	0 lb - 1,191 klb	0 lb - 1,191 klb	0 lb - 1,191 klb	0 lb - 1,191 klb	0 lb - 1,191 klb	0 lb - 1,191 klb	0 lb - 1,191 klb
		0 lb	0 lb	0 lb	0 lb	0 lb	0 lb	0 lb	0 lb	0 lb	0 lb
ft		1,000 lb									
52.5	482.8	1020.7	469.6	923.7	-	-	-	-	-	-	-
55.8	453.1	1020.7	440.9	923.7	423.3	923.7	410.1	864.2	-	-	-
59.1	423.3	1020.7	412.3	923.7	394.6	923.7	383.6	862.0	368.2	820.1	357.1
62.3	399.0	1020.7	388.0	923.7	371.5	923.7	361.6	854.3	346.1	811.3	335.1
65.6	374.8	1020.7	363.8	923.7	348.3	923.7	339.5	846.6	324.1	802.5	313.1
72.2	330.7	1016.3	321.9	923.7	308.6	923.7	299.8	826.7	284.4	780.4	275.6
78.7	295.4	985.5	286.6	923.7	273.4	899.5	264.6	802.5	251.3	756.2	244.7
85.3	262.4	952.4	255.7	923.7	242.5	870.8	235.9	776.0	220.5	729.7	215.0
91.9	233.7	917.1	229.3	903.9	215.0	840.0	209.4	749.6	196.2	701.1	189.6
98.4	209.4	879.6	203.9	870.8	191.8	806.9	186.3	720.9	173.1	674.6	167.6
111.5	167.6	810.6	159.8	806.2	146.2	743.7	148.1	662.1	135.6	618.8	130.8
124.7	128.3	747.4	121.8	745.9	108.0	683.4	109.9	607.7	99.0	565.9	95.5
137.8	91.7	690.0	89.9	690.0	76.9	628.3	71.7	557.8	63.3	515.9	61.7
141.1	84.0	679.0	82.4	678.3	69.6	617.3	63.8	547.1	55.0	505.7	53.8
144.4	76.4	668.0	74.9	666.5	62.2	606.3	56.0	536.5	46.8	495.6	45.9
147.6	68.7	657.0	67.4	654.8	54.9	595.2	48.2	525.8	38.5	485.5	37.9
150.9	61.0	646.0	59.8	643.0	47.5	584.2	40.3	515.9	30.3	475.3	30.0
154.2	53.3	634.9	52.3	631.3	40.2	573.2	32.5	506.0	22.0	465.2	22.0
160.8	39.6	612.4	38.5	607.9	26.5	550.1	18.7	487.2	-	448.3	-
164.0	33.6	603.2	32.3	598.6	20.1	540.1	-	476.6	-	440.2	-
170.6	21.5	584.7	19.8	579.8	-	523.6	-	460.3	-	424.0	-
173.9	15.4	575.4	-	571.0	-	515.3	-	452.8	-	415.9	-
177.2	-	566.6	-	562.2	-	507.1	-	445.3	-	407.9	-
190.3	-	532.8	-	528.4	-	476.2	-	418.9	-	381.4	-
203.4	-	495.3	-	492.4	-	445.3	-	391.0	-	357.1	-
216.5	-	454.2	-	454.2	-	421.1	-	368.2	-	335.1	-
229.7	-	418.0	-	418.9	-	400.5	-	350.5	-	317.5	-
242.8	-	386.5	-	386.5	-	375.5	-	332.2	-	299.8	-
255.9	-	357.1	-	357.1	-	346.1	-	317.5	-	286.6	-
269.0	-	330.7	-	330.7	-	319.7	-	300.9	-	269.0	-
282.2	-	305.6	-	306.4	-	295.4	-	284.4	-	251.3	-
295.3	-	284.4	-	284.4	-	273.4	-	266.8	-	233.7	-
308.4	-	263.8	-	263.8	-	251.3	-	235.9	-	210.2	-
321.5	-	245.3	-	245.3	-	224.9	-	206.1	-	183.0	-
334.6	-	228.7	-	229.0	-	203.6	-	179.7	-	156.5	-
347.8	-	213.8	-	213.6	-	184.6	-	157.9	-	134.9	-
360.9	-	200.6	-	199.8	-	168.1	-	140.8	-	118.2	-
374.0	-	187.8	-	186.8	-	154.0	-	126.2	-	103.4	-
387.1	-	175.3	-	174.7	-	142.5	-	113.9	-	90.6	-
400.3	-	-	-	163.5	-	133.2	-	103.2	-	79.3	-
403.5	-	-	-	160.9	-	131.5	-	100.9	-	77.0	-
413.4	-	-	-	-	-	126.3	-	94.0	-	70.1	-
416.7	-	-	-	-	-	124.6	-	91.7	-	67.8	-
426.5	-	-	-	-	-	-	-	86.8	-	62.2	-
433.1	-	-	-	-	-	-	-	83.8	-	58.9	-
439.6	-	-	-	-	-	-	-	-	-	55.7	-
442.9	-	-	-	-	-	-	-	-	-	54.0	-
452.8	-	-	-	-	-	-	-	-	-	47.7	-
459.3	-	-	-	-	-	-	-	-	-	41.4	-
465.9	-	-	-	-	-	-	-	-	-	37.7	-
472.4	-	-	-	-	-	-	-	-	-	34.0	-
479.0	-	-	-	-	-	-	-	-	-	32.1	-
488.8	-	-	-	-	-	-	-	-	-	27.3	-
492.1	-	-	-	-	-	-	-	-	-	24.5	-
505.3	-	-	-	-	-	-	-	-	-	84.6	-
518.4	-	-	-	-	-	-	-	-	-	80.1	-
521.7	-	-	-	-	-	-	-	-	-	79.6	-
										74.7	-
										70.7	-
										62.6	-
										61.5	-
										59.0	-
										48.9	-
										49.2	-
										40.0	-
										37.7	-

	0 lb	374,800 lb	595,300 lb	815,800 lb	992,100 lb	1,191,000 lb
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# Operation




LSL\_7

551.2 klb + 132.3 klb ZB		31.5 ft		32.2 ft/s		360°		ASME B30.5												
236.2 ft		255.9 ft		275.6 ft		295.3 ft		315.0 ft		334.6 ft		354.3 ft		374.0 ft		393.7 ft		413.4 ft		
0 lb - 1,191 klb		0 lb - 1,191 klb		0 lb - 1,191 klb		0 lb - 1,191 klb		0 lb - 1,191 klb		0 lb - 1,191 klb		0 lb - 1,191 klb		0 lb - 1,191 klb		0 lb - 1,191 klb		0 lb - 1,191 klb		
ft		1,000 lb																		
36.1	1122.2	1433.0	1073.7	1433.0	1029.6	1433.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39.4	1022.9	1433.0	983.3	1433.0	943.6	1433.0	906.1	1408.8	870.8	1305.1	-	-	-	-	-	-	-	-	-	-
42.7	945.8	1433.0	910.5	1433.0	875.2	1433.0	841.1	1408.8	809.1	1305.1	773.8	1192.7	-	-	-	-	-	-	-	-
45.9	868.6	1433.0	837.8	1433.0	806.9	1433.0	776.0	1408.8	747.4	1305.1	720.9	1192.7	692.3	1104.5	668.0	1005.3	-	-	-	-
49.2	810.2	1433.0	782.6	1433.0	754.0	1433.0	726.4	1408.8	700.0	1305.1	674.6	1192.7	649.3	1104.5	626.1	1005.3	601.9	919.3	579.8	840.0
52.5	751.8	1433.0	727.5	1433.0	701.1	1433.0	676.8	1408.8	652.6	1305.1	628.3	1192.7	606.3	1104.5	584.2	1005.3	564.4	919.3	542.3	840.0
59.1	643.8	1433.0	634.9	1433.0	617.3	1433.0	595.2	1408.8	575.4	1305.1	555.6	1192.7	535.7	1104.5	515.9	1005.3	498.2	919.3	480.6	840.0
65.6	560.0	1433.0	546.7	1433.0	537.9	1433.0	531.3	1408.8	511.5	1305.1	493.8	1192.7	476.2	1104.5	458.6	1005.3	443.1	919.3	427.7	840.0
72.2	489.4	1433.0	480.6	1433.0	469.6	1433.0	463.0	1408.8	454.2	1305.1	443.1	1192.7	427.7	1104.5	412.3	1005.3	396.8	919.3	383.6	840.0
78.7	432.1	1433.0	427.7	1433.0	416.7	1433.0	403.4	1408.8	396.8	1305.1	392.4	1192.7	381.4	1104.5	370.4	1005.3	359.4	919.3	343.9	840.0
85.3	390.2	1433.0	379.2	1433.0	366.0	1433.0	357.1	1408.8	352.7	1305.1	346.1	1192.7	341.7	1104.5	335.1	1005.3	324.1	919.3	310.9	840.0
91.9	354.9	1411.0	339.5	1404.3	328.5	1393.3	326.3	1384.5	313.1	1305.1	308.6	1192.7	304.2	1104.5	295.4	1005.3	293.2	919.3	282.2	840.0
98.4	332.9	1314.0	313.1	1305.1	297.6	1296.3	306.4	1287.5	280.0	1278.7	284.4	1192.7	271.2	1104.5	264.6	1005.3	260.1	919.3	255.7	831.1
111.5	276.7	1156.3	270.1	1147.5	250.2	1138.7	256.8	1129.9	230.9	1123.3	232.6	1113.3	224.9	1067.0	215.0	985.5	211.1	891.8	205.6	803.6
124.7	232.0	1026.3	226.0	1018.5	216.1	1008.6	212.7	999.8	197.9	994.3	186.3	987.7	192.9	974.4	175.3	937.0	169.8	849.9	164.8	767.2
137.8	197.9	920.4	192.4	913.8	185.2	902.8	178.0	894.0	173.6	889.6	156.5	883.0	158.2	873.0	146.6	863.1	138.3	808.0	131.2	726.4
150.9	170.9	833.3	164.8	826.7	156.5	815.7	148.8	806.9	144.4	802.5	135.0	795.9	126.8	788.2	118.6	780.4	110.8	761.7	102.7	685.6
164.0	148.8	760.6	141.6	752.9	132.8	743.0	125.1	734.1	120.3	728.6	112.9	722.0	102.8	715.4	93.0	708.8	84.5	703.3	76.7	647.1
177.2	130.1	698.9	122.4	690.0	113.4	681.2	105.5	672.4	100.3	665.8	92.0	659.2	82.5	652.6	71.1	646.0	64.5	641.5	55.8	610.7
190.3	114.0	646.0	106.0	637.1	97.0	628.3	88.7	618.4	83.6	612.9	74.8	606.3	64.4	598.6	52.9	591.9	47.7	587.5	39.2	574.3
203.4	100.6	593.0	92.4	591.9	83.1	582.0	74.7	572.1	69.2	566.6	59.6	560.0	48.7	552.3	38.1	545.6	32.4	540.1	24.7	533.5
210.0	94.6	564.4	86.2	571.0	76.7	560.0	68.3	551.2	62.6	544.5	52.5	537.9	41.4	531.3	31.5	524.7	25.1	518.1	17.6	511.5
213.3	91.9	546.7	83.6	561.1	74.1	550.6	65.6	541.8	59.6	535.2	49.4	528.0	38.5	521.4	28.5	514.8	22.0	508.5	-	501.6
216.5	-	-	81.0	551.2	71.4	541.2	62.8	532.4	56.7	525.8	46.3	518.1	35.6	511.5	25.5	504.9	18.8	499.0	-	491.6
219.8	-	-	78.4	541.2	68.8	531.9	60.1	523.0	53.7	516.4	43.2	508.2	32.7	501.6	22.4	494.9	15.7	489.4	-	481.7
226.4	-	-	73.6	518.1	63.9	513.7	55.0	504.9	48.2	498.2	37.5	490.0	27.2	481.7	16.5	476.2	-	471.8	-	463.5
229.7	-	-	71.4	504.9	61.6	504.9	52.7	496.0	45.6	489.4	34.9	481.7	24.6	471.8	-	467.4	-	463.0	-	455.3
239.5	-	-	-	-	55.2	479.1	46.1	470.7	38.4	464.1	27.6	457.5	17.0	445.3	-	442.0	-	437.6	-	431.0
242.8	-	-	-	-	53.3	471.1	44.1	463.0	36.2	456.4	25.4	449.7	-	438.7	-	434.3	-	429.9	-	423.3
246.1	-	-	-	-	51.4	463.0	42.1	455.3	34.0	448.6	23.1	442.0	-	432.1	-	426.6	-	422.2	-	415.6
255.9	-	-	-	-	-	-	36.8	434.3	27.9	427.7	17.0	418.9	-	412.3	-	405.7	-	400.1	-	393.5
262.5	-	-	-	-	-	-	33.5	421.1	24.0	414.5	-	405.7	-	399.0	-	392.4	-	385.8	-	379.2
269.0	-	-	-	-	-	-	-	-	20.8	402.3	-	393.5	-	385.8	-	379.2	-	373.7	-	366.0
278.9	-	-	-	-	-	-	-	-	16.3	383.6	-	375.9	-	367.1	-	360.5	-	356.0	-	338.4
282.2	-	-	-	-	-	-	-	-	-	-	-	370.4	-	361.6	-	354.9	-	350.5	-	328.5
295.3	-	-	-	-	-	-	-	-	-	-	-	349.1	-	341.2	-	332.9	-	321.3	-	283.0
298.6	-	-	-	-	-	-	-	-	-	-	-	343.9	-	336.5	-	325.5	-	312.2	-	270.2
308.4	-	-	-	-	-	-	-	-	-	-	-	-	-	322.4	-	303.5	-	284.9	-	231.8
315.0	-	-	-	-	-	-	-	-	-	-	-	-	-	313.1	-	288.8	-	266.8	-	206.1
321.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	259.3	-	237.5	-	181.5
331.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	215.0	-	193.7	-	144.5
334.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	179.1	-	131.9
347.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	120.2	-	81.4
360.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.6
364.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.1

	0 lb	242,500 lb	374,800 lb	595,300 lb	815,800 lb	992,100 lb	1,191,000 lb
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# Operation

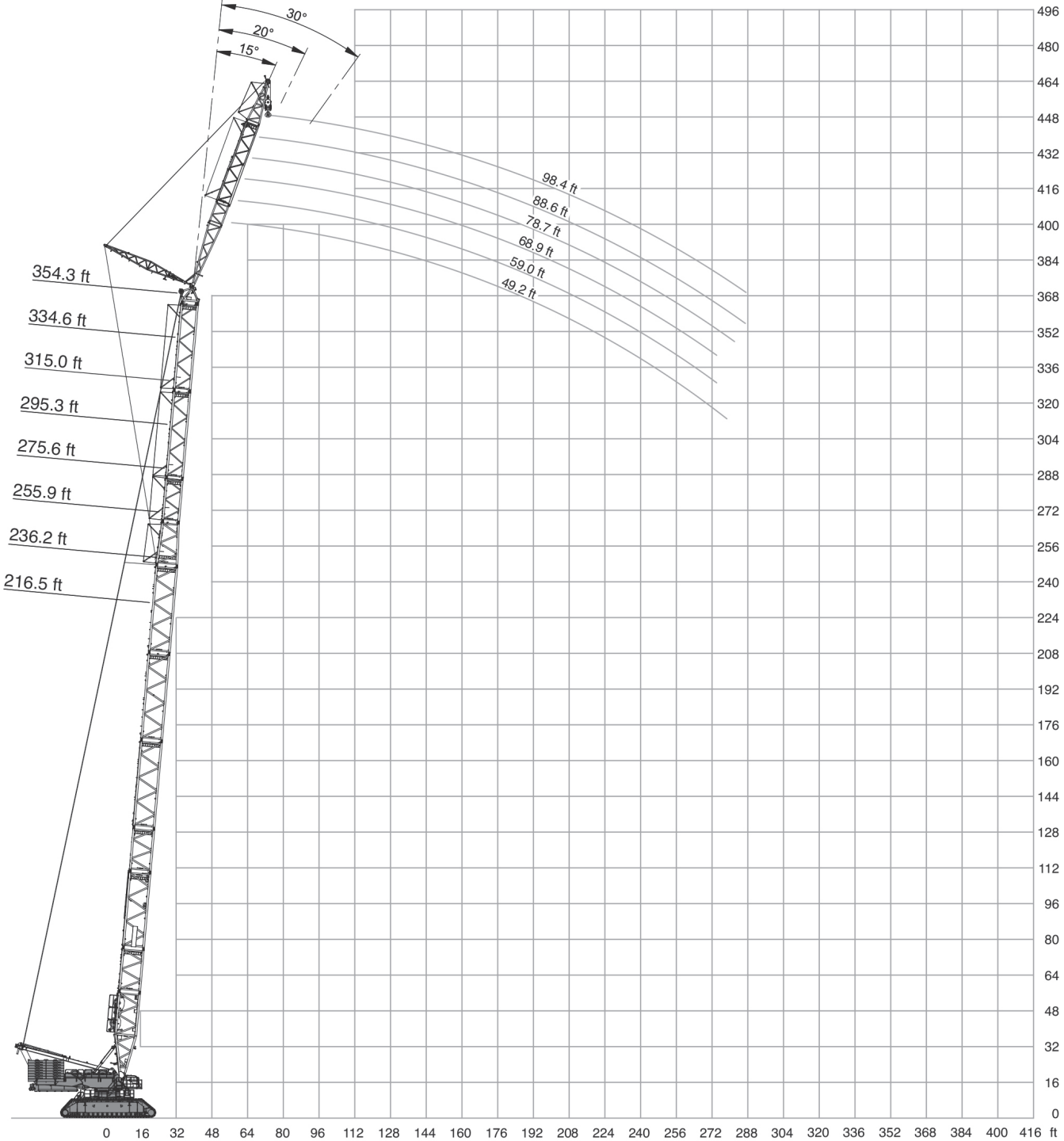
LSL\_7

		551.2 klb +  132.3 klb ZB			 31.5 ft			 32.2 ft/s			360°			ASME B30.5						
		433.1 ft		452.8 ft		472.4 ft		492.1 ft		511.8 ft		531.5 ft		551.2 ft		570.9 ft		590.6 ft		
		0 lb - 1,191 klb		0 lb - 1,191 klb		0 lb - 1,191 klb		0 lb - 1,191 klb		0 lb - 1,191 klb		0 lb - 1,191 klb		0 lb - 1,191 klb		0 lb - 1,191 klb		0 lb - 1,191 klb		
ft		0 lb		0 lb		0 lb		0 lb		0 lb		0 lb		0 lb		0 lb		0 lb		
		1,000 lb																		
52.5	520.3	778.2	500.4	709.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
55.8	490.5	778.2	471.8	709.9	451.9	646.0	434.3	586.4	-	-	-	-	-	-	-	-	-	-	-	
59.1	460.8	778.2	443.1	709.9	425.5	646.0	407.9	586.4	394.6	531.3	377.0	476.2	-	-	-	-	-	-	-	
62.3	434.3	778.2	417.8	709.9	401.2	646.0	384.7	586.4	372.6	531.3	354.9	476.2	339.5	429.9	330.7	388.0	-	-	-	
65.6	407.9	778.2	392.4	709.9	377.0	646.0	361.6	586.4	350.5	531.3	332.9	476.2	319.7	429.9	310.9	388.0	299.8	348.3	348.3	
72.2	366.0	778.2	350.5	709.9	337.3	643.8	321.9	586.4	310.9	529.1	295.4	476.2	284.4	429.9	275.6	388.0	264.6	348.3	348.3	
78.7	328.5	778.2	315.3	707.7	302.0	643.8	288.8	584.2	277.8	526.9	262.4	476.2	251.3	429.9	244.7	388.0	233.7	348.3	348.3	
85.3	295.4	778.2	282.2	707.7	271.2	641.5	257.9	582.0	249.1	526.9	235.9	474.0	224.9	429.9	218.3	388.0	208.3	348.3	348.3	
91.9	266.8	778.2	255.7	705.5	244.7	641.5	231.5	579.8	222.7	524.7	209.4	474.0	199.5	427.7	194.0	385.8	184.1	348.3	348.3	
98.4	242.5	778.2	231.5	705.5	220.5	641.5	208.3	579.8	199.5	524.7	187.4	471.8	178.6	425.5	172.0	383.6	163.1	346.1	346.1	
111.5	201.2	778.2	190.7	705.5	178.0	640.4	167.6	579.8	160.9	523.6	149.4	470.7	141.6	423.3	136.7	381.4	125.0	343.9	343.9	
124.7	159.3	773.8	151.0	702.2	142.2	637.1	132.3	577.6	124.7	522.5	115.1	469.6	105.3	423.3	101.3	380.3	87.7	341.7	341.7	
137.8	119.5	758.4	112.4	694.5	112.0	632.7	102.7	575.4	94.5	519.2	82.8	468.5	71.3	422.2	67.7	379.2	55.2	341.7	341.7	
150.9	91.4	730.8	82.3	679.0	82.1	623.9	75.1	568.8	69.2	514.8	53.4	465.2	45.9	418.9	40.5	378.1	29.2	340.6	340.6	
157.5	80.5	714.3	69.9	668.0	68.1	619.5	61.5	566.6	56.7	513.7	39.0	463.0	35.1	416.7	28.0	377.0	17.9	339.5	339.5	
164.0	69.6	684.5	60.4	655.9	56.1	611.8	49.6	562.2	45.2	510.4	27.4	461.9	22.6	416.7	18.7	374.8	-	337.3	337.3	
167.3	64.1	669.7	55.7	649.8	50.1	607.9	43.7	560.0	39.5	508.7	21.7	461.3	16.3	416.7	-	373.7	-	336.2	336.2	
170.6	58.6	654.8	50.9	643.8	44.1	604.1	37.7	557.8	33.7	507.1	15.9	460.8	-	414.5	-	372.6	-	335.1	335.1	
177.2	48.8	626.1	41.4	617.3	33.8	589.7	27.3	552.3	23.3	502.7	-	457.5	-	413.4	-	372.6	-	335.1	335.1	
180.4	43.9	611.8	36.7	604.1	28.7	582.6	22.2	549.5	18.1	500.4	-	455.8	-	412.8	-	372.6	-	335.1	335.1	
183.7	39.0	597.5	32.0	590.8	23.6	575.4	17.0	546.7	-	500.4	-	454.2	-	412.3	-	372.6	-	335.1	335.1	
187.0	34.7	584.8	27.7	578.3	19.2	564.4	-	539.6	-	498.2	-	452.5	-	410.6	-	370.9	-	334.0	334.0	
190.3	30.4	572.1	23.4	565.9	-	554.1	-	532.4	-	496.0	-	450.8	-	409.0	-	369.3	-	332.9	332.9	
193.6	26.1	559.4	19.2	553.4	-	543.8	-	525.3	-	493.8	-	449.2	-	407.3	-	367.6	-	331.8	331.8	
200.1	17.9	535.7	-	531.3	-	523.0	-	509.3	-	484.5	-	445.3	-	404.0	-	364.9	-	329.6	329.6	
203.4	-	524.7	-	520.3	-	512.6	-	500.4	-	477.3	-	443.1	-	402.3	-	363.8	-	328.5	328.5	
216.5	-	483.9	-	478.4	-	471.8	-	465.2	-	447.5	-	429.9	-	396.1	-	358.3	-	324.1	324.1	
229.7	-	447.5	-	442.0	-	434.3	-	429.9	-	418.9	-	403.4	-	382.5	-	350.5	-	319.7	319.7	
242.8	-	414.5	-	409.0	-	401.2	-	396.8	-	391.3	-	378.1	-	362.7	-	341.7	-	314.2	314.2	
255.9	-	383.6	-	379.2	-	372.6	-	367.1	-	362.7	-	353.8	-	339.5	-	329.6	-	306.4	306.4	
269.0	-	358.3	-	352.7	-	346.1	-	340.6	-	335.1	-	328.5	-	317.5	-	312.3	-	296.5	296.5	
282.2	-	334.0	-	328.5	-	321.9	-	316.4	-	310.9	-	304.2	-	297.6	-	293.2	-	280.0	280.0	
295.3	-	312.0	-	307.0	-	300.3	-	293.2	-	289.4	-	283.3	-	276.7	-	275.0	-	263.0	263.0	
308.4	-	292.1	-	286.0	-	279.3	-	274.1	-	268.4	-	263.5	-	256.8	-	256.3	-	246.6	246.6	
321.5	-	273.4	-	267.3	-	260.7	-	256.3	-	249.7	-	244.7	-	238.1	-	238.1	-	230.7	230.7	
334.6	-	256.5	-	250.8	-	244.2	-	239.8	-	233.1	-	227.1	-	221.1	-	221.9	-	215.8	215.8	
347.8	-	242.0	-	235.6	-	228.7	-	223.8	-	217.5	-	211.1	-	205.6	-	206.4	-	200.9	200.9	
360.9	-	227.6	-	221.8	-	214.4	-	208.3	-	203.3	-	196.8	-	191.3	-	191.5	-	186.0	186.0	
374.0	-	214.7	-	208.9	-	201.4	-	195.7	-	189.9	-	183.3	-	177.7	-	178.0	-	172.2	172.2	
383.9	-	206.1	-	199.8	-	192.2	-	186.6	-	180.4	-	173.8	-	168.2	-	168.9	-	162.7	162.7	
387.1	-	-	-	196.8	-	189.2	-	183.5	-	177.2	-	170.6	-	165.1	-	165.9	-	159.6	159.6	
400.3	-	-	-	185.2	-	177.9	-	172.2	-	165.6	-	159.0	-	153.5	-	154.2	-	148.1	148.1	
413.4	-	-	-	-	-	167.9	-	161.8	-	155.2	-	148.5	-	143.0	-	142.8	-	137.6	137.6	
416.7	-	-	-	-	-	165.3	-	159.1	-	152.5	-	145.9	-	140.4	-	140.0	-	134.9	134.9	
426.5	-	-	-	-	-	-	-	151.6	-	145.2	-	138.3	-	133.1	-	132.8	-	126.1	126.1	
433.1	-	-	-	-	-	-	-	146.6	-	140.5	-	133.4	-	128.4	-	127.9	-	119.9	119.9	
439.6	-	-	-	-	-	-	-	-	-	135.9	-	129.0	-	123.7	-	122.9	-	113.8	113.8	
449.5	-	-	-	-	-	-	-	-	-	129.0	-	122.5	-	116.9	-	115.9	-	104.6	104.6	
452.8	-	-	-	-	-	-	-	-	-	-	-	120.4	-	114.8	-	113.9	-	101.6	101.6	
465.9	-	-	-	-	-	-	-	-	-	-	-	112.1	-	106.3	-	105.7	-	89.7	89.7	
469.2	-	-	-	-	-	-	-	-	-	-	-	110.0	-	104.2	-	103.7	-	86.8	86.8	
479.0	-	-	-	-	-	-	-	-	-	-	-	-	-	98.4	-	96.9	-	78.5	78.5	
485.6	-	-	-	-	-	-	-	-	-	-	-	-	-	94.8	-	92.3	-	73.3	73.3	
492.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	87.6	-	68.1	68.1	
502.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80.5	-	60.9	60.9	
518.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50.3	50.3	

	0 lb	242,500 lb	374,800 lb	595,300 lb	815,800 lb	992,100 lb	1,191,000 lb
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# FIXED FLY JIB





# Operation

LH+LF\_2

+		49.2 – 137.8 ft								31.5 ft				32.2 ft/s				360°				ASME B30.5							
		216.5 ft								236.2 ft																			
		49.2 ft		59.0 ft		68.9 ft		78.7 ft		98.4 ft		118.1 ft		137.8 ft		49.2 ft		59.0 ft		68.9 ft		78.7 ft		98.4 ft		118.1 ft		137.8 ft	
		15°		20°		15°		20°		15°		20°		15°		20°		15°		20°		15°		20°		15°		20°	
ft		1,000 lb																											
45.9	551.2	-	-	-	-	-	-	-	-	-	-	-	-	-	551.2	-	-	-	-	-	-	-	-	-	-	-	-	-	
49.2	551.2	551.2	551.2	-	-	-	-	-	-	-	-	-	-	-	551.2	551.2	551.2	551.2	-	-	-	-	-	-	-	-	-	-	-
52.5	551.2	551.2	551.2	551.2	551.2	-	-	-	-	-	-	-	-	-	551.2	551.2	551.2	551.2	-	-	-	-	-	-	-	-	-	-	-
55.8	551.2	551.2	551.2	551.2	551.2	520.3	551.2	-	-	-	-	-	-	-	551.2	551.2	551.2	551.2	551.2	551.2	-	-	537.9	-	-	-	-	-	-
59.1	551.2	551.2	551.2	551.2	551.2	507.1	546.7	-	-	-	-	-	-	-	551.2	551.2	551.2	551.2	551.2	551.2	551.2	524.7	537.9	-	-	-	-	-	-
62.3	539.0	542.3	537.9	541.2	536.8	494.9	532.4	440.9	-	-	-	-	-	-	532.4	534.6	531.3	533.5	530.2	513.7	521.4	414.5	-	-	-	-	-	-	-
65.6	526.9	533.5	524.7	531.3	522.5	482.8	518.1	432.1	-	-	-	-	-	-	513.7	518.1	511.5	515.9	509.3	502.7	504.9	414.5	-	-	-	-	-	-	-
68.9	500.4	506.0	498.2	504.9	497.1	472.9	493.8	421.1	343.9	-	-	-	-	-	488.3	492.7	486.1	490.5	483.9	483.9	480.6	413.4	328.5	-	-	-	-	-	-
72.2	474.0	478.4	471.8	478.4	471.8	463.0	469.6	410.1	343.9	-	-	-	-	-	463.0	467.4	460.8	465.2	458.6	465.2	456.4	412.3	328.5	-	-	-	-	-	-
75.5	451.9	456.4	449.7	455.3	449.7	447.5	447.5	400.1	339.5	266.8	-	-	-	-	440.9	445.3	438.7	443.1	437.6	443.1	435.4	406.8	327.4	255.7	-	-	-	-	-
78.7	429.9	434.3	427.7	432.1	427.7	432.1	425.5	390.2	335.1	266.8	-	-	-	-	418.9	423.3	416.7	421.1	416.7	421.1	414.5	401.2	326.3	255.7	-	-	-	-	-
85.3	385.8	388.0	388.0	392.4	390.2	394.6	388.0	372.6	317.5	264.6	-	-	-	-	381.4	385.8	381.4	385.8	381.4	385.8	379.2	377.0	319.7	255.7	-	-	-	-	-
91.9	346.1	348.3	348.3	350.5	350.5	354.9	352.7	354.9	304.2	260.1	-	-	-	-	343.9	346.1	346.1	348.3	348.3	352.7	348.3	346.1	313.1	255.7	-	-	-	-	-
98.4	310.9	315.3	313.1	317.5	315.3	319.7	317.5	321.9	291.0	255.7	-	-	-	-	308.6	313.1	310.9	315.3	313.1	317.5	315.3	319.7	304.2	255.7	-	-	-	-	-
111.5	257.9	260.1	260.1	262.4	262.4	264.6	262.4	269.0	239.0	238.1	-	-	-	-	255.7	257.9	257.9	260.1	260.1	262.4	260.1	266.8	271.2	244.7	-	-	-	-	-
124.7	218.3	220.5	219.4	222.7	220.5	224.9	222.7	227.1	231.5	218.3	-	-	-	-	215.0	217.2	217.2	219.4	218.3	220.5	219.4	224.9	229.3	229.3	-	-	-	-	-
137.8	186.3	188.5	187.4	189.6	189.6	191.8	190.7	194.0	197.3	201.7	-	-	-	-	184.1	185.2	185.2	187.4	186.3	188.5	187.4	191.8	195.1	199.5	-	-	-	-	-
150.9	160.9	162.0	162.0	163.1	163.1	165.3	164.2	167.6	172.0	174.2	-	-	-	-	158.7	159.8	158.7	160.9	160.9	163.1	162.0	165.3	168.7	172.0	-	-	-	-	-
164.0	140.0	141.1	141.1	142.2	142.2	144.4	143.3	146.6	149.9	153.2	-	-	-	-	137.8	138.9	137.8	140.0	140.0	141.1	140.0	144.4	147.7	151.0	-	-	-	-	-
177.2	122.4	123.5	123.5	124.6	124.6	126.8	125.7	129.0	132.3	134.5	-	-	-	-	120.2	121.3	120.2	122.4	122.4	123.5	122.4	125.7	129.0	132.3	-	-	-	-	-
190.3	107.6	108.7	108.5	109.6	110.0	111.3	110.2	113.5	116.8	119.0	-	-	-	-	104.3	105.4	104.9	106.3	106.3	108.0	106.9	109.8	113.5	116.8	-	-	-	-	-
203.4	94.4	95.2	95.0	95.9	96.3	97.7	96.8	99.2	103.2	105.8	-	-	-	-	90.8	91.7	91.3	92.6	92.8	94.4	93.3	95.2	99.4	103.4	-	-	-	-	-
216.5	82.9	83.6	83.3	84.2	84.7	85.8	85.1	87.3	90.4	93.7	-	-	-	-	79.1	80.0	79.6	80.7	81.1	82.2	81.4	84.9	87.7	90.2	-	-	-	-	-
229.7	72.8	73.4	73.2	74.1	74.5	75.4	74.7	77.8	80.5	82.9	-	-	-	-	69.0	69.9	69.4	70.3	70.8	71.9	71.0	74.1	77.2	78.5	-	-	-	-	-
232.9	70.5	71.0	71.0	71.8	72.2	73.1	72.5	75.4	78.1	80.5	-	-	-	-	66.9	67.6	67.2	68.1	68.5	69.4	68.7	71.4	74.7	76.4	-	-	-	-	-
242.8	64.2	-	64.4	65.0	65.7	66.4	65.7	68.1	71.0	73.2	-	-	-	-	60.4	60.8	60.6	61.3	61.7	62.8	61.9	63.7	67.0	70.3	-	-	-	-	-
249.3	-	-	60.6	-	61.7	62.4	61.8	64.2	66.7	69.1	-	-	-	-	56.5	56.9	56.8	57.3	57.9	58.8	58.0	60.1	63.2	66.0	-	-	-	-	-
252.6	-	-	58.6	-	59.7	60.4	59.9	62.2	64.6	67.1	-	-	-	-	54.6	-	54.8	55.3	55.9	56.7	56.0	58.3	61.2	63.9	-	-	-	-	-
255.9	-	-	-	-	57.8	-	58.0	60.2	62.6	65.0	-	-	-	-	52.7	-	52.9	53.4	54.0	54.7	54.0	56.4	59.3	61.7	-	-	-	-	-
259.2	-	-	-	-	56.0	-	56.2	58.4	60.7	63.1	-	-	-	-	50.9	-	51.1	51.6	52.1	52.9	52.2	54.6	57.4	59.6	-	-	-	-	-
262.5	-	-	-	-	54.2	-	54.5	56.7	58.9	61.1	-	-	-	-	-	-	49.5	-	50.3	51.1	50.5	52.8	55.6	57.4	-	-	-	-	-
269.0	-	-	-	-	-	-	50.9	53.1	55.1	57.1	-	-	-	-	-	-	46.1	-	47.0	47.6	47.0	49.2	51.8	53.1	-	-	-	-	-
272.3	-	-	-	-	-	-	49.4	51.1	53.4	55.3	-	-	-	-	-	-	-	-	45.4	-	45.4	47.4	49.8	51.1	-	-	-	-	-
278.9	-	-	-	-	-	-	-	47.2	49.8	51.8	-	-	-	-	-	-	-	-	42.3	-	42.3	43.9	46.6	47.5	-	-	-	-	-
282.2	-	-	-	-	-	-	-	45.4	48.1	50.0	-	-	-	-	-	-	-	-	-	-	40.8	42.1	45.0	45.9	-	-	-	-	-
288.7	-	-	-	-	-	-	-	42.3	45.0	47.0	-	-	-	-	-	-	-	-	-	-	37.9	39.4	42.0	42.8	-	-	-	-	-
295.3	-	-	-	-	-	-	-	-	42.5	44.1	-	-	-	-	-	-	-	-	-	-	-	36.6	39.0	39.7	-	-	-	-	-
308.4	-	-	-	-	-	-	-	-	37.3	38.4	-	-	-	-	-	-	-	-	-	-	-	31.3	32.8	34.2	-	-	-	-	-
321.5	-	-	-	-	-	-	-	-	-	33.5	-	-	-	-	-	-	-	-	-	-	-	-	27.1	29.5	-	-	-	-	-
324.8	-	-	-	-	-	-	-	-	-	32.1	-	-	-	-	-	-	-	-	-	-	-	-	25.8	28.4	-	-	-	-	-
328.1	-	-	-	-	-	-	-	-	-	30.6	-	-	-	-	-	-	-	-	-	-	-	-	-	27.2	-	-	-	-	-
334.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.9	-	-	-	-	-
344.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.8	-	-	-	-	-

- 374,800 lb + 0 lb
- 463,000 lb + 0 lb
- 551,200 lb + 0 lb
- 639,500 lb + 44,100 lb

# Operation

LH+LF\_2

		49.2 – 137.8 ft								31.5 ft				32.2 ft/s				360°				ASME B30.5								
		255.9 ft								275.6 ft																				
		49.2 ft		59.0 ft		68.9 ft		78.7 ft		98.4 ft		118.1 ft		137.8 ft		49.2 ft		59.0 ft		68.9 ft		78.7 ft		98.4 ft		118.1 ft		137.8 ft		
		15°		20°		15°		20°		15°		20°		15°		20°		15°		20°		15°		20°		15°		20°		
ft		1,000 lb																												
49.2	551.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	551.2	-	-	-	-	-	-	-	-	-	-	-	-	-	
52.5	551.2	551.2	551.2	551.2	-	-	-	-	-	-	-	-	-	-	-	551.2	551.2	551.2	-	-	-	-	-	-	-	-	-	-	-	-
55.8	551.2	551.2	551.2	551.2	551.2	551.2	-	-	-	-	-	-	-	-	-	545.6	549.0	544.5	-	-	-	-	-	-	-	-	-	-	-	-
59.1	551.2	551.2	551.2	551.2	551.2	496.0	507.1	-	-	-	-	-	-	-	-	540.1	546.7	537.9	526.9	511.5	-	-	-	-	-	-	-	-	-	-
62.3	524.7	526.9	523.6	526.9	522.5	492.7	499.3	-	-	-	-	-	-	-	-	511.5	517.0	509.3	507.1	494.9	476.2	465.2	-	-	-	-	-	-	-	-
65.6	498.2	502.7	496.0	502.7	493.8	489.4	491.6	401.2	-	-	-	-	-	-	-	482.8	487.2	480.6	487.2	478.4	474.0	463.0	377.0	-	-	-	-	-	-	-
72.2	447.5	454.2	447.5	451.9	445.3	451.9	443.1	401.2	313.1	-	-	-	-	-	-	434.3	440.9	434.3	438.7	432.1	438.7	429.9	377.0	295.4	-	-	-	-	-	-
78.7	405.7	410.1	405.7	410.1	405.7	410.1	403.4	394.6	313.1	251.3	-	-	-	-	-	394.6	399.0	392.4	399.0	392.4	399.0	392.4	377.0	295.4	238.1	-	-	-	-	-
85.3	370.4	374.8	370.4	374.8	370.4	374.8	368.2	366.0	313.1	251.3	-	-	-	-	-	359.4	363.8	359.4	363.8	359.4	363.8	357.1	357.1	295.4	238.1	-	-	-	-	-
91.9	339.5	343.9	339.5	343.9	339.5	343.9	337.3	337.3	306.4	251.3	-	-	-	-	-	328.5	332.9	328.5	332.9	328.5	335.1	328.5	328.5	295.4	238.1	-	-	-	-	-
98.4	306.4	308.6	308.6	310.9	310.9	315.3	310.9	310.9	302.0	249.1	-	-	-	-	-	302.0	306.4	302.0	306.4	302.0	308.6	302.0	302.0	295.4	238.1	-	-	-	-	-
111.5	251.3	255.7	253.5	257.9	255.7	260.1	257.9	262.4	266.8	242.5	-	-	-	-	-	249.1	251.3	251.3	253.5	253.5	255.7	253.5	260.1	257.9	235.9	-	-	-	-	-
124.7	211.6	213.8	212.7	216.1	215.0	218.3	216.1	220.5	224.9	227.1	-	-	-	-	-	208.3	210.5	209.4	211.6	211.6	215.0	212.7	218.3	222.7	224.9	-	-	-	-	-
137.8	179.7	181.9	180.8	183.0	183.0	185.2	184.1	188.5	192.9	196.2	-	-	-	-	-	176.4	177.5	177.5	179.7	179.7	181.9	180.8	185.2	189.6	194.0	-	-	-	-	-
150.9	154.3	155.4	155.4	157.6	156.5	159.8	157.6	162.0	165.3	169.8	-	-	-	-	-	149.9	152.1	151.0	153.2	153.2	155.4	154.3	158.7	163.1	166.4	-	-	-	-	-
164.0	133.4	134.5	134.5	135.6	135.6	137.8	136.7	140.0	143.3	147.7	-	-	-	-	-	129.0	131.2	130.1	132.3	132.3	134.5	132.3	135.6	140.0	144.4	-	-	-	-	-
177.2	114.6	116.8	115.7	117.9	117.9	120.2	117.9	122.4	125.7	129.0	-	-	-	-	-	110.2	111.3	111.3	113.5	113.5	115.7	113.5	117.9	121.3	125.7	-	-	-	-	-
190.3	99.2	100.5	100.1	101.6	101.6	103.6	102.3	106.5	109.1	113.5	-	-	-	-	-	94.4	95.7	95.2	97.0	97.0	99.0	97.7	101.2	104.5	110.0	-	-	-	-	-
203.4	85.8	86.9	86.4	87.7	88.0	89.7	88.6	92.4	95.7	99.4	-	-	-	-	-	80.7	82.0	81.6	83.1	83.1	84.9	83.8	86.9	90.6	95.5	-	-	-	-	-
216.5	74.1	75.2	74.7	75.8	76.1	77.6	76.5	80.2	83.6	86.9	-	-	-	-	-	69.0	70.1	69.7	71.0	71.2	72.8	71.7	75.6	79.4	82.7	-	-	-	-	-
229.7	63.9	64.8	64.6	65.5	65.9	67.0	66.1	69.7	71.7	74.7	-	-	-	-	-	58.9	59.7	59.3	60.6	60.8	62.2	61.3	65.0	68.3	71.2	-	-	-	-	-
242.8	55.1	55.8	55.6	56.4	56.9	58.0	57.1	60.2	62.4	65.5	-	-	-	-	-	49.8	50.7	50.3	51.4	51.6	52.9	52.0	55.1	58.9	60.6	-	-	-	-	-
255.9	47.4	47.8	47.6	48.3	48.7	49.8	48.9	52.0	54.0	56.4	-	-	-	-	-	41.9	42.8	42.3	43.2	43.7	44.8	43.9	46.1	49.6	50.9	-	-	-	-	-
265.7	42.3	42.5	42.3	43.0	43.4	44.4	43.7	46.6	48.1	50.5	-	-	-	-	-	36.7	37.4	37.0	37.8	38.1	39.3	38.4	40.5	43.3	44.3	-	-	-	-	-
269.0	40.6	-	40.6	41.2	41.7	42.5	41.9	44.8	46.3	48.5	-	-	-	-	-	35.1	35.7	35.3	36.2	36.4	37.5	36.6	38.6	41.2	42.1	-	-	-	-	-
275.6	37.5	-	37.5	38.1	38.6	39.4	38.7	41.4	43.1	44.9	-	-	-	-	-	32.0	32.5	32.2	33.0	33.3	34.2	33.4	35.7	37.7	38.1	-	-	-	-	-
282.2	-	-	34.6	-	35.5	36.2	35.5	38.1	39.9	41.2	-	-	-	-	-	28.9	29.3	29.1	29.8	30.2	30.9	30.2	32.3	34.4	34.6	-	-	-	-	-
285.4	-	-	33.1	-	34.1	34.6	34.1	36.6	38.4	39.8	-	-	-	-	-	27.5	-	27.7	28.3	28.8	29.4	28.8	31.3	33.0	33.0	-	-	-	-	-
292.0	-	-	-	-	31.4	-	31.4	33.7	35.2	36.8	-	-	-	-	-	24.7	-	24.9	25.4	25.9	26.6	25.9	28.2	30.1	29.8	-	-	-	-	-
295.3	-	-	-	-	30.0	-	30.0	32.2	33.5	35.5	-	-	-	-	-	23.4	-	23.6	-	24.5	25.1	24.5	26.7	28.7	28.2	-	-	-	-	-
301.8	-	-	-	-	-	-	27.3	29.5	30.5	32.7	-	-	-	-	-	-	-	20.9	-	21.9	22.5	21.9	23.8	26.0	25.6	-	-	-	-	-
305.1	-	-	-	-	-	-	26.0	28.2	29.0	31.4	-	-	-	-	-	-	-	-	-	20.7	-	20.7	22.4	24.6	24.3	-	-	-	-	-
308.4	-	-	-	-	-	-	-	26.9	27.6	30.0	-	-	-	-	-	-	-	-	-	19.4	-	19.4	20.9	23.1	22.9	-	-	-	-	-
311.7	-	-	-	-	-	-	-	25.7	26.3	28.7	-	-	-	-	-	-	-	-	-	18.3	-	18.3	19.7	21.8	21.7	-	-	-	-	-
321.5	-	-	-	-	-	-	-	22.3	22.7	24.7	-	-	-	-	-	-	-	-	-	-	-	15.0	15.9	17.9	17.9	-	-	-	-	-
324.8	-	-	-	-	-	-	-	21.2	21.6	23.5	-	-	-	-	-	-	-	-	-	-	-	-	14.7	16.6	16.6	-	-	-	-	-
334.6	-	-	-	-	-	-	-	-	18.3	19.8	-	-	-	-	-	-	-	-	-	-	-	-	11.2	13.0	13.0	-	-	-	-	-
337.9	-	-	-	-	-	-	-	-	17.3	18.7	-	-	-	-	-	-	-	-	-	-	-	-	-	11.9	11.9	-	-	-	-	-
344.5	-	-	-	-	-	-	-	-	15.4	16.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
347.8	-	-	-	-	-	-	-	-	15.4	15.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
360.9	-	-	-	-	-	-	-	-	11.5	11.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- 374,800 lb + 0 lb
- 463,000 lb + 0 lb
- 551,200 lb + 0 lb
- 639,500 lb + 44,100 lb

# Operation

LH+LF\_2

		49.2 – 137.8 ft								31.5 ft				32.2 ft/s				360°				ASME B30.5							
		295.3 ft								315.0 ft																			
		49.2 ft		59.0 ft		68.9 ft		78.7 ft		98.4 ft		118.1 ft		137.8 ft		49.2 ft		59.0 ft		68.9 ft		78.7 ft		98.4 ft		118.1 ft		137.8 ft	
		15°		20°		15°		20°		15°		20°		15°		20°		15°		20°		15°		20°		15°		20°	
ft		1,000 lb																											
52.5	504.9	-	-	-	-	-	-	-	-	-	-	-	-	-	467.4	-	-	-	-	-	-	-	-	-	-	-	-	-	
55.8	501.6	469.6	451.9	-	-	-	-	-	-	-	-	-	-	-	464.1	443.1	425.5	-	-	-	-	-	-	-	-	-	-	-	-
59.1	498.2	467.4	449.7	418.9	407.9	-	-	-	-	-	-	-	-	-	460.8	440.9	421.1	-	385.8	-	-	-	-	-	-	-	-	-	-
62.3	483.9	466.3	447.5	416.7	405.7	374.8	370.4	-	-	-	-	-	-	-	458.6	439.8	420.0	396.8	384.7	-	352.7	-	-	-	-	-	-	-	-
65.6	469.6	465.2	445.3	414.5	403.4	372.6	368.2	-	-	-	-	-	-	-	456.4	438.7	418.9	394.6	383.6	359.4	350.5	-	-	-	-	-	-	-	-
68.9	447.5	447.5	434.3	412.3	401.2	371.5	366.0	308.6	-	-	-	-	-	-	434.3	427.7	415.6	393.5	381.4	358.3	349.4	295.4	-	-	-	-	-	-	-
72.2	425.5	429.9	423.3	410.1	399.0	370.4	363.8	306.4	-	-	-	-	-	-	412.3	416.7	412.3	392.4	379.2	357.1	348.3	295.4	-	-	-	-	-	-	-
75.5	405.7	410.1	403.4	400.1	391.3	368.2	361.6	305.3	257.9	-	-	-	-	-	393.5	397.9	392.4	385.8	375.9	356.0	347.2	294.3	249.1	-	-	-	-	-	-
78.7	385.8	390.2	383.6	390.2	383.6	366.0	359.4	304.2	257.9	-	-	-	-	-	374.8	379.2	372.6	379.2	372.6	354.9	346.1	293.2	249.1	-	-	-	-	-	-
82.0	368.2	372.6	367.1	372.6	367.1	361.6	354.9	302.0	255.7	219.4	-	-	-	-	358.3	362.7	357.1	362.7	357.1	350.5	342.8	292.1	248.0	201.7	-	-	-	-	-
85.3	350.5	354.9	350.5	354.9	350.5	357.1	350.5	299.8	253.5	218.3	-	-	-	-	341.7	346.1	341.7	346.1	341.7	339.5	339.5	291.0	246.9	201.7	-	-	-	-	-
91.9	321.9	326.3	321.9	326.3	321.9	326.3	321.9	295.4	251.3	216.1	-	-	-	-	313.1	317.5	313.1	317.5	313.1	317.5	313.1	288.8	244.7	201.7	-	-	-	-	-
98.4	295.4	299.8	295.4	299.8	295.4	299.8	295.4	293.2	249.1	213.8	-	-	-	-	286.6	291.0	286.6	291.0	288.8	293.2	286.6	286.6	244.7	200.6	-	-	-	-	-
111.5	246.9	249.1	249.1	251.3	251.3	255.7	253.5	253.5	242.5	209.4	-	-	-	-	244.7	246.9	244.7	249.1	246.9	251.3	246.9	246.9	240.3	200.6	-	-	-	-	-
124.7	206.1	208.3	207.2	210.5	209.4	212.7	210.5	216.1	219.4	203.9	-	-	-	-	203.9	206.1	205.0	208.3	207.2	210.5	208.3	212.7	212.7	196.2	-	-	-	-	-
137.8	174.2	176.4	175.3	177.5	177.5	180.8	178.6	183.0	187.4	191.8	-	-	-	-	172.0	173.1	173.1	175.3	174.2	177.5	175.3	180.8	183.0	186.3	-	-	-	-	-
150.9	148.8	149.9	149.9	152.1	151.0	154.3	152.1	156.5	160.9	165.3	-	-	-	-	145.5	147.7	145.5	148.8	148.8	151.0	149.9	154.3	158.7	160.9	-	-	-	-	-
164.0	126.8	129.0	127.9	129.0	130.1	131.2	131.2	134.5	138.9	143.3	-	-	-	-	122.4	124.6	123.5	125.7	126.8	129.0	126.8	131.2	136.7	138.9	-	-	-	-	-
177.2	108.0	109.6	108.9	111.3	110.2	113.5	111.3	115.7	120.2	123.5	-	-	-	-	104.5	104.9	105.4	106.9	107.1	109.6	108.0	111.3	116.8	121.3	-	-	-	-	-
190.3	92.2	93.7	93.0	94.8	94.6	96.8	95.2	99.6	103.8	107.8	-	-	-	-	88.4	89.3	89.3	91.3	90.8	93.3	91.7	96.1	100.8	103.4	-	-	-	-	-
203.4	78.3	79.8	78.7	80.9	80.7	82.7	81.4	85.3	89.5	92.2	-	-	-	-	74.7	76.3	75.4	77.2	77.2	79.1	77.6	80.5	85.5	89.1	-	-	-	-	-
216.5	66.8	67.9	67.2	68.8	68.8	70.5	69.2	73.2	76.9	78.0	-	-	-	-	63.1	64.2	63.5	65.0	64.8	66.8	65.5	67.2	71.7	76.3	-	-	-	-	-
229.7	56.4	57.5	56.9	58.2	58.4	59.7	58.6	62.6	66.1	66.1	-	-	-	-	52.7	53.8	53.1	54.7	54.7	56.2	54.9	56.7	60.0	63.9	-	-	-	-	-
242.8	47.4	48.5	47.8	48.9	49.2	50.5	49.6	53.1	56.4	56.2	-	-	-	-	43.2	44.3	43.4	45.2	45.0	46.7	45.4	47.8	50.3	53.6	-	-	-	-	-
255.9	39.5	40.3	39.9	40.8	41.0	42.3	41.4	44.8	46.7	48.1	-	-	-	-	35.1	35.9	35.9	37.0	36.2	37.5	36.2	39.5	42.3	44.8	-	-	-	-	-
269.0	32.6	33.3	32.8	33.7	34.0	35.1	34.2	36.8	38.1	40.3	-	-	-	-	28.4	29.3	28.9	29.5	28.7	30.0	28.4	31.5	34.6	37.5	-	-	-	-	-
282.2	26.0	26.9	26.5	27.1	27.6	28.4	27.6	29.5	30.6	33.1	-	-	-	-	22.3	22.9	22.3	22.7	22.9	23.8	22.0	24.3	27.6	30.4	-	-	-	-	-
295.3	20.5	21.2	20.7	21.2	21.8	22.7	21.8	22.9	24.5	26.2	-	-	-	-	16.3	17.0	15.9	16.8	17.2	18.1	17.0	17.9	20.7	23.8	-	-	-	-	-
298.6	19.2	19.8	19.5	19.8	20.6	21.4	20.5	21.5	23.2	24.7	-	-	-	-	15.0	15.6	14.6	15.4	15.8	16.6	15.5	16.4	19.2	22.3	-	-	-	-	-
305.1	16.7	-	17.1	17.2	18.0	18.7	17.9	18.6	20.7	21.6	-	-	-	-	12.3	12.8	11.9	12.6	13.1	13.8	12.7	13.4	16.3	19.2	-	-	-	-	-
308.4	15.4	-	15.9	15.9	16.8	17.4	16.5	17.2	19.4	20.1	-	-	-	-	11.0	11.5	-	11.2	11.7	12.3	11.2	11.9	14.8	17.6	-	-	-	-	-
311.7	14.6	-	14.8	-	15.6	16.1	15.3	15.9	18.1	18.7	-	-	-	-	-	-	-	-	-	11.0	-	-	13.3	16.2	-	-	-	-	-
315.0	-	-	13.7	-	14.4	14.8	14.1	14.7	16.9	17.3	-	-	-	-	-	-	-	-	-	-	-	-	11.9	14.8	-	-	-	-	-
318.2	-	-	12.6	-	13.3	13.4	12.9	13.4	15.6	15.9	-	-	-	-	-	-	-	-	-	-	-	-	-	13.3	-	-	-	-	-
321.5	-	-	11.5	-	12.1	-	11.7	12.1	14.3	14.6	-	-	-	-	-	-	-	-	-	-	-	-	-	11.9	-	-	-	-	-
324.8	-	-	-	-	11.0	-	-	11.0	13.1	13.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328.1	-	-	-	-	-	-	-	-	11.9	11.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- 374,800 lb + 0 lb
- 463,000 lb + 0 lb
- 551,200 lb + 0 lb
- 639,500 lb + 44,100 lb

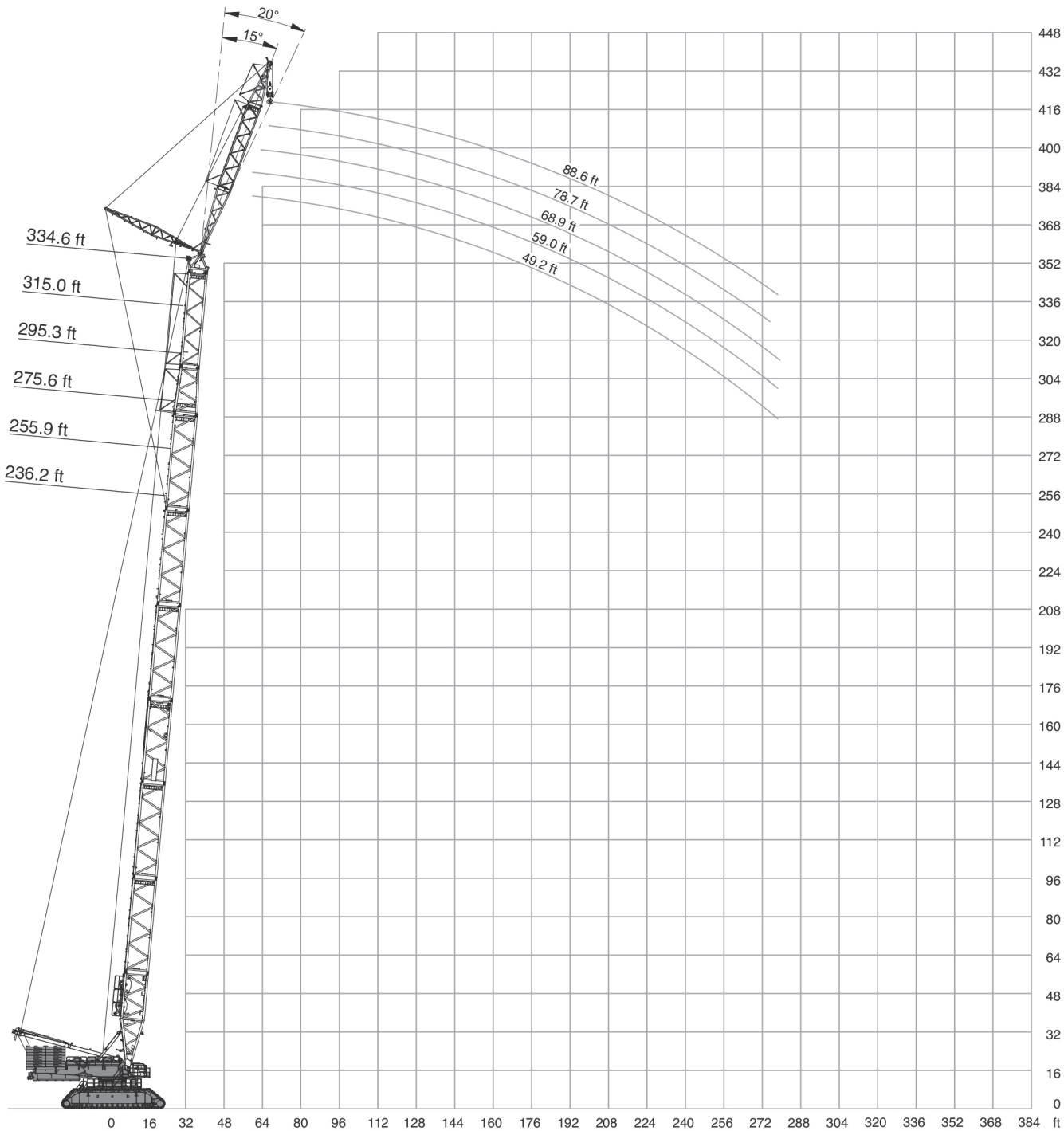
# Operation

LH+LF\_2

		49.2 – 137.8 ft								31.5 ft				32.2 ft/s				360°		ASME B30.5			
		334.6 ft								354.3 ft													
		49.2 ft		59.0 ft		68.9 ft		78.7 ft		98.4 ft		118.1 ft		137.8 ft		49.2 ft		59.0 ft		68.9 ft		78.7 ft	
		15°		20°		15°		20°		15°		20°		15°		20°		15°		20°		15°	
ft		1,000 lb																				ft	
55.8	427.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	388.0	-	-	-	-	-	-	55.8
59.1	425.5	401.2	385.8	-	-	-	-	-	-	-	-	-	-	-	-	383.6	-	354.9	-	-	-	-	59.1
62.3	423.3	400.1	383.6	361.6	350.5	-	-	-	-	-	-	-	-	-	-	379.2	368.2	352.7	-	326.3	-	-	62.3
65.6	421.1	399.0	381.4	359.4	348.3	-	319.7	-	-	-	-	-	-	-	-	374.8	366.0	350.5	335.1	324.1	-	297.6	65.6
68.9	410.1	396.8	380.3	357.1	347.2	324.1	318.6	-	-	-	-	-	-	-	-	369.3	364.9	348.3	334.0	321.9	304.2	296.5	68.9
72.2	399.0	394.6	379.2	354.9	346.1	321.9	317.5	269.0	-	-	-	-	-	-	-	363.8	363.8	346.1	332.9	319.7	304.2	295.4	72.2
78.7	363.8	368.2	361.6	352.7	341.7	319.7	313.1	266.8	227.1	-	-	-	-	-	-	352.7	354.9	337.3	328.5	317.5	302.0	291.0	78.7
85.3	330.7	335.1	330.7	335.1	330.7	317.5	310.9	264.6	224.9	190.7	321.9	326.3	321.9	326.3	313.1	299.8	288.8	288.8	288.8	288.8	288.8	288.8	85.3
91.9	302.0	306.4	302.0	306.4	302.0	308.6	302.0	260.1	222.7	189.6	293.2	297.6	293.2	299.8	295.4	295.4	286.6	286.6	286.6	286.6	286.6	286.6	91.9
98.4	277.8	282.2	277.8	282.2	277.8	284.4	277.8	257.9	219.4	188.5	269.0	273.4	269.0	275.6	271.2	275.6	271.2	271.2	271.2	271.2	271.2	271.2	98.4
111.5	235.9	240.3	235.9	240.3	238.1	242.5	238.1	238.1	215.0	184.1	229.3	233.7	229.3	233.7	231.5	235.9	231.5	231.5	231.5	231.5	231.5	231.5	111.5
124.7	198.4	201.7	200.6	203.9	202.8	207.2	201.7	206.1	206.1	206.1	180.8	192.3	197.3	197.3	200.6	198.4	201.7	198.4	198.4	198.4	198.4	198.4	124.7
137.8	167.6	169.8	167.6	172.0	170.9	174.2	172.0	177.5	179.7	177.5	162.0	164.2	164.2	168.7	167.6	170.9	168.7	168.7	168.7	168.7	168.7	168.7	137.8
150.9	141.1	142.2	140.0	145.5	144.4	147.7	145.5	151.0	154.3	156.5	136.7	136.7	137.8	142.2	141.1	144.4	142.2	142.2	142.2	142.2	142.2	142.2	150.9
164.0	117.9	119.0	119.0	122.4	121.3	124.6	122.4	127.9	132.3	137.8	114.6	115.7	114.6	117.9	116.8	121.3	119.0	119.0	119.0	119.0	119.0	119.0	164.0
177.2	99.4	100.8	99.6	102.7	102.3	104.9	103.2	108.2	111.3	116.8	95.5	96.1	96.3	99.0	98.1	101.4	99.4	99.4	99.4	99.4	99.4	99.4	177.2
190.3	83.3	84.4	84.2	86.2	86.0	88.4	86.6	91.7	93.7	98.5	77.8	80.0	79.8	82.7	82.2	84.9	83.1	83.1	83.1	83.1	83.1	83.1	190.3
203.4	69.7	71.2	69.4	71.7	71.2	73.6	71.7	76.9	79.8	83.1	63.3	65.0	66.6	68.6	68.3	70.5	69.0	69.0	69.0	69.0	69.0	69.0	203.4
216.5	57.5	59.1	58.2	59.7	59.1	61.1	58.9	63.3	67.5	71.0	51.6	52.9	54.2	56.2	56.0	58.2	56.7	56.7	56.7	56.7	56.7	56.7	216.5
229.7	46.7	48.1	47.6	49.4	49.4	51.1	48.7	52.0	56.0	60.0	42.3	43.7	42.5	44.3	44.3	47.6	46.1	46.1	46.1	46.1	46.1	46.1	229.7
242.8	36.4	37.7	38.8	40.1	40.1	41.9	40.1	43.0	45.6	49.6	33.3	34.4	32.0	33.5	33.7	38.1	36.6	36.6	36.6	36.6	36.6	36.6	242.8
255.9	27.8	28.9	30.4	31.7	31.7	33.3	31.7	35.1	35.9	40.1	24.7	25.8	22.7	24.3	24.3	28.7	27.3	27.3	27.3	27.3	27.3	27.3	255.9
269.0	20.7	21.6	22.5	23.8	23.8	25.4	23.8	27.3	27.3	31.5	17.0	17.9	14.8	16.1	16.1	20.3	19.0	19.0	19.0	19.0	19.0	19.0	269.0
275.6	18.0	18.7	19.0	20.2	20.3	21.7	20.3	23.8	23.4	27.3	13.4	14.3	11.2	12.3	12.6	16.6	15.2	15.2	15.2	15.2	15.2	15.2	275.6
278.9	16.6	17.3	17.2	18.4	18.5	19.9	18.5	22.0	21.5	25.5	11.7	12.6	-	-	-	14.8	13.3	13.3	13.3	13.3	13.3	13.3	278.9
282.2	15.2	15.9	15.4	16.5	16.8	18.1	16.8	20.3	19.6	23.6	-	-	-	-	-	13.0	11.5	11.5	11.5	11.5	11.5	11.5	282.2
285.4	13.8	14.4	13.8	14.8	15.1	16.4	15.1	18.6	17.9	21.8	-	-	-	-	-	11.2	-	-	-	-	-	-	285.4
288.7	12.3	12.9	12.1	13.2	13.5	14.8	13.5	17.0	16.2	20.0	-	-	-	-	-	-	-	-	-	-	-	-	288.7
292.0	-	11.5	-	11.5	11.9	13.1	11.9	15.3	14.5	18.1	-	-	-	-	-	-	-	-	-	-	-	-	292.0
295.3	-	-	-	-	-	11.5	-	13.7	12.8	16.3	-	-	-	-	-	-	-	-	-	-	-	-	295.3
298.6	-	-	-	-	-	-	-	12.1	11.2	14.7	-	-	-	-	-	-	-	-	-	-	-	-	298.6
305.1	-	-	-	-	-	-	-	-	-	11.5	-	-	-	-	-	-	-	-	-	-	-	-	305.1

- 374,800 lb + 0 lb
- 463,000 lb + 0 lb
- 551,200 lb + 0 lb
- 639,500 lb + 44,100 lb





# Operation

LH+LF\_7

		49.2 – 137.8 ft								31.5 ft				32.2 ft/s				360°				ASME B30.5							
		236.2 ft								255.9 ft																			
		49.2 ft		59.0 ft		68.9 ft		78.7 ft		98.4 ft		118.1 ft		137.8 ft		49.2 ft		59.0 ft		68.9 ft		78.7 ft		98.4 ft		118.1 ft		137.8 ft	
		15°		20°		15°		20°		15°		20°		15°		20°		15°		20°		15°		20°		15°		20°	
ft		1,000 lb																											
45.9	551.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49.2	551.2	551.2	551.2	551.2	-	-	-	-	-	-	-	-	-	-	551.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52.5	551.2	551.2	551.2	-	-	551.2	-	-	-	-	-	-	-	551.2	551.2	551.2	-	-	-	-	-	-	-	-	-	-	-	-	-
55.8	551.2	551.2	551.2	551.2	551.2	-	-	544.5	-	-	-	-	-	551.2	551.2	551.2	551.2	551.2	-	-	-	-	-	-	-	-	-	-	-
59.1	551.2	551.2	551.2	551.2	551.2	515.9	540.1	-	-	-	-	-	-	551.2	551.2	551.2	551.2	551.2	551.2	515.9	533.5	-	-	-	-	-	-	-	-
62.3	551.2	551.2	551.2	551.2	551.2	504.9	532.4	418.9	-	-	-	-	-	551.2	551.2	551.2	551.2	551.2	551.2	507.1	529.1	-	-	-	-	-	-	-	-
65.6	551.2	551.2	551.2	551.2	551.2	493.8	524.7	418.9	-	-	-	-	-	551.2	551.2	551.2	551.2	551.2	551.2	498.2	524.7	-	-	-	-	-	-	-	-
68.9	543.4	545.6	542.3	544.5	541.2	483.9	512.6	417.8	326.3	-	-	-	-	534.6	537.9	533.5	536.8	533.5	488.3	515.9	410.1	-	-	-	-	-	-	-	-
72.2	535.7	540.1	533.5	537.9	531.3	474.0	500.4	416.7	326.3	-	-	-	-	518.1	524.7	515.9	522.5	515.9	478.4	507.1	410.1	321.9	-	-	-	-	-	-	-
75.5	511.5	515.9	509.3	513.7	507.1	464.1	488.3	407.9	326.3	253.5	-	-	-	494.9	500.4	492.7	498.2	492.7	469.6	487.2	404.5	321.9	-	-	-	-	-	-	-
78.7	487.2	491.6	485.0	489.4	482.8	454.2	476.2	399.0	326.3	253.5	471.8	476.2	469.6	474.0	469.6	460.8	467.4	469.6	460.8	467.4	399.0	321.9	249.1	-	-	-	-	-	-
85.3	445.3	449.7	443.1	447.5	443.1	436.5	440.9	381.4	317.5	253.5	429.9	434.3	429.9	434.3	429.9	434.3	427.7	429.9	434.3	427.7	385.8	315.3	249.1	-	-	-	-	-	-
91.9	399.0	403.4	401.2	405.7	403.4	407.9	405.7	366.0	306.4	249.1	394.6	399.0	394.6	399.0	394.6	399.0	392.4	394.6	399.0	392.4	372.6	308.6	246.9	-	-	-	-	-	-
98.4	361.6	363.8	363.8	366.0	366.0	370.4	368.2	352.7	297.6	246.9	357.1	359.4	359.4	361.6	361.6	366.0	363.8	359.4	363.8	359.4	359.4	299.8	244.7	-	-	-	-	-	-
111.5	299.8	302.0	302.0	304.2	304.2	306.4	306.4	310.9	273.4	233.7	295.4	297.6	297.6	299.8	299.8	302.0	299.8	306.4	299.8	302.0	299.8	280.0	235.9	-	-	-	-	-	-
124.7	253.5	255.7	255.7	257.9	257.9	260.1	257.9	262.4	253.5	219.4	249.1	251.3	251.3	253.5	253.5	255.7	253.5	257.9	253.5	255.7	253.5	260.1	222.7	-	-	-	-	-	-
137.8	218.3	219.4	219.4	220.5	220.5	222.7	222.7	227.1	229.3	206.1	212.7	215.0	213.8	216.1	216.1	218.3	217.2	222.7	227.1	222.7	227.1	210.5	-	-	-	-	-	-	-
150.9	188.5	190.7	189.6	191.8	191.8	194.0	192.9	196.2	200.6	194.0	183.0	185.2	185.2	186.3	186.3	188.5	187.4	191.8	196.2	198.4	-	-	-	-	-	-	-	-	-
164.0	165.3	166.4	166.4	167.6	167.6	169.8	168.7	172.0	175.3	178.6	159.8	160.9	160.9	162.0	162.0	164.2	163.1	167.6	170.9	175.3	-	-	-	-	-	-	-	-	-
177.2	145.5	146.6	146.6	147.7	147.7	148.8	147.7	152.1	155.4	158.7	140.0	141.1	140.0	142.2	142.2	144.4	143.3	146.6	151.0	154.3	-	-	-	-	-	-	-	-	-
190.3	129.0	129.0	129.0	130.1	130.1	132.3	131.2	134.5	137.8	141.1	122.4	123.5	123.5	124.6	124.6	126.8	125.7	129.0	133.4	136.7	-	-	-	-	-	-	-	-	-
203.4	113.5	114.6	114.6	115.7	115.7	116.8	115.7	120.2	122.4	125.7	106.7	107.8	107.4	108.9	109.1	111.3	109.8	113.5	117.9	121.3	-	-	-	-	-	-	-	-	-
216.5	100.3	101.0	100.8	101.9	102.3	103.6	102.7	106.3	109.6	112.4	93.3	94.4	94.1	95.2	95.7	97.2	96.3	100.1	103.8	107.4	-	-	-	-	-	-	-	-	-
229.7	88.6	89.5	89.3	90.2	90.6	91.7	91.1	94.4	97.2	100.3	81.6	82.5	82.2	83.3	83.8	85.1	84.4	88.2	91.5	95.0	-	-	-	-	-	-	-	-	-
242.8	78.7	79.1	79.1	79.8	80.2	81.4	80.7	83.8	86.6	89.5	71.4	72.3	72.1	73.0	73.4	74.7	73.9	77.4	80.7	84.0	-	-	-	-	-	-	-	-	-
249.3	74.1	74.7	74.6	75.3	75.8	76.7	76.1	79.0	81.8	84.7	67.0	67.8	67.6	68.5	68.9	70.1	69.3	72.5	75.8	79.0	-	-	-	-	-	-	-	-	-
255.9	69.9	-	70.1	70.8	71.4	72.1	71.4	74.3	76.9	79.8	62.6	63.3	63.1	63.9	64.4	65.5	64.8	68.1	71.0	74.3	-	-	-	-	-	-	-	-	-
259.2	67.9	-	68.2	68.6	69.4	70.1	69.4	72.2	74.8	77.6	60.6	61.2	61.0	61.9	62.3	63.4	62.7	66.0	68.9	72.1	-	-	-	-	-	-	-	-	-
265.7	-	-	64.3	-	65.3	66.0	65.5	68.1	70.7	73.2	56.7	57.1	56.9	57.8	58.3	59.2	58.5	61.7	64.7	67.7	-	-	-	-	-	-	-	-	-
269.0	-	-	62.4	-	63.3	63.9	63.5	66.1	68.6	71.0	54.7	-	55.1	55.8	56.2	57.1	56.4	59.5	62.6	65.5	-	-	-	-	-	-	-	-	-
275.6	-	-	-	-	59.7	-	59.9	62.4	64.7	67.1	51.1	-	51.6	52.0	52.7	53.4	52.8	55.8	58.6	61.4	-	-	-	-	-	-	-	-	-
278.9	-	-	-	-	58.0	-	58.0	60.5	62.8	65.2	-	-	49.8	-	50.9	51.6	51.0	53.9	56.7	59.4	-	-	-	-	-	-	-	-	-
282.2	-	-	-	-	-	-	56.2	58.6	60.8	63.3	-	-	48.1	-	49.2	49.8	49.2	52.0	54.9	57.3	-	-	-	-	-	-	-	-	-
285.4	-	-	-	-	-	-	54.7	57.0	59.1	61.5	-	-	46.3	-	47.6	48.1	47.6	50.4	53.1	55.6	-	-	-	-	-	-	-	-	-
288.7	-	-	-	-	-	-	53.1	55.3	57.4	59.7	-	-	-	-	46.0	-	46.0	48.7	51.4	53.9	-	-	-	-	-	-	-	-	-
295.3	-	-	-	-	-	-	-	52.0	54.0	56.2	-	-	-	-	42.8	-	42.8	45.4	47.8	50.5	-	-	-	-	-	-	-	-	-
305.1	-	-	-	-	-	-	-	47.6	49.4	51.4	-	-	-	-	-	-	38.4	40.8	43.2	45.7	-	-	-	-	-	-	-	-	-
308.4	-	-	-	-	-	-	-	46.1	47.8	49.8	-	-	-	-	-	-	-	39.2	41.7	44.1	-	-	-	-	-	-	-	-	-
321.5	-	-	-	-	-	-	-	-	42.1	44.1	-	-	-	-	-	-	-	34.0	35.9	38.1	-	-	-	-	-	-	-	-	-
324.8	-	-	-	-	-	-	-	-	40.8	42.8	-	-	-	-	-	-	-	32.6	34.6	36.8	-	-	-	-	-	-	-	-	-
334.6	-	-	-	-	-	-	-	-	-	38.8	-	-	-	-	-	-	-	-	30.6	32.6	-	-	-	-	-	-	-	-	-
344.5	-	-	-	-	-	-	-	-	-	35.1	-	-	-	-	-	-	-	-	27.1	28.8	-	-	-	-	-	-	-	-	-
347.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27.6	-	-	-	-	-	-	-	-	-
360.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.9	-	-	-	-	-	-	-	-	-

- 374,800 lb + 0 lb
- 463,000 lb + 0 lb
- 551,200 lb + 0 lb
- 639,500 lb + 44,100 lb
- 639,500 lb + 396,900 lb

# Operation

LH+LF\_7

		49.2 – 137.8 ft							31.5 ft				32.2 ft/s				360°				ASME B30.5			
		275.6 ft							295.3 ft															
		49.2 ft		59.0 ft		68.9 ft		78.7 ft	98.4 ft	118.1 ft	137.8 ft	49.2 ft		59.0 ft		68.9 ft		78.7 ft	98.4 ft	118.1 ft	137.8 ft			
		15°		20°		15°		20°		15°		15°		20°		15°		20°		15°				
ft		1,000 lb																						
49.2	551.2	-	-	-	-	-	-	-	-	-	-	551.2	-	-	-	-	-	-	-	-	-			
52.5	551.2	551.2	551.2	-	-	-	-	-	-	-	-	551.2	551.2	551.2	-	-	-	-	-	-	-			
55.8	551.2	551.2	551.2	-	551.2	-	-	-	-	-	-	551.2	551.2	551.2	-	-	-	-	-	-	-			
59.1	551.2	551.2	551.2	551.2	551.2	-	498.2	-	-	-	-	551.2	551.2	549.0	504.9	500.4	-	-	-	-	-			
62.3	551.2	551.2	551.2	551.2	551.2	485.0	497.1	-	-	-	-	546.7	550.1	544.5	504.9	497.1	443.1	454.2	-	-	-			
65.6	551.2	551.2	551.2	551.2	551.2	485.0	496.0	392.4	-	-	-	542.3	549.0	540.1	504.9	493.8	443.1	451.9	-	-	-			
68.9	526.9	529.1	525.8	529.1	525.8	483.9	492.7	392.4	-	-	-	515.9	522.5	513.7	499.3	488.3	443.1	449.7	372.6	-	-			
72.2	502.7	507.1	500.4	507.1	500.4	482.8	489.4	392.4	304.2	-	-	489.4	496.0	487.2	493.8	482.8	443.1	447.5	372.6	-	-			
75.5	479.5	483.9	477.3	483.9	477.3	471.8	471.8	391.3	304.2	-	-	467.4	472.9	465.2	471.8	463.0	443.1	442.0	372.6	291.0	-			
78.7	456.4	460.8	454.2	460.8	454.2	460.8	454.2	390.2	304.2	242.5	242.5	445.3	449.7	443.1	449.7	443.1	443.1	436.5	372.6	291.0	-			
82.0	436.5	440.9	435.4	440.9	435.4	440.9	434.3	385.8	304.2	242.5	242.5	425.5	429.9	424.4	429.9	424.4	427.7	421.1	370.4	291.0	231.5			
85.3	416.7	421.1	416.7	421.1	416.7	421.1	414.5	381.4	304.2	242.5	242.5	405.7	410.1	405.7	410.1	405.7	412.3	405.7	368.2	291.0	231.5			
91.9	381.4	385.8	381.4	385.8	381.4	388.0	381.4	372.6	302.0	242.5	242.5	372.6	377.0	372.6	377.0	372.6	379.2	372.6	361.6	291.0	231.5			
98.4	352.7	354.9	352.7	357.1	352.7	357.1	352.7	350.5	299.8	240.3	240.3	343.9	348.3	343.9	348.3	343.9	348.3	343.9	343.9	291.0	231.5			
111.5	291.0	293.2	293.2	295.4	295.4	299.8	297.6	302.0	286.6	238.1	238.1	288.8	291.0	291.0	293.2	293.2	297.6	295.4	295.4	284.4	231.5			
124.7	244.7	246.9	244.7	249.1	246.9	251.3	249.1	255.7	260.1	224.9	224.9	242.5	244.7	242.5	246.9	244.7	249.1	246.9	253.5	257.9	222.7			
137.8	207.2	209.4	209.4	211.6	210.5	213.8	212.7	217.2	222.7	212.7	212.7	205.0	207.2	206.1	209.4	208.3	211.6	209.4	215.0	220.5	215.0			
150.9	178.6	179.7	179.7	181.9	181.9	184.1	183.0	187.4	191.8	196.2	196.2	175.3	177.5	177.5	179.7	178.6	181.9	179.7	185.2	189.6	194.0			
164.0	154.3	155.4	155.4	157.6	157.6	159.8	158.7	163.1	166.4	170.9	170.9	152.1	153.2	153.2	155.4	154.3	157.6	155.4	159.8	164.2	168.7			
177.2	133.4	135.6	134.5	136.7	136.7	138.9	137.8	142.2	146.6	149.9	149.9	130.1	132.3	132.3	134.5	133.4	136.7	134.5	140.0	143.3	147.7			
190.3	115.7	116.8	116.8	117.9	117.9	120.2	119.0	124.6	127.9	132.3	132.3	112.4	113.5	113.5	115.7	115.7	117.9	116.8	121.3	125.7	130.1			
203.4	99.9	101.2	101.0	102.5	102.7	104.7	103.6	108.2	112.4	116.8	116.8	96.8	98.3	97.9	99.6	99.6	101.6	100.5	105.2	109.6	113.5			
216.5	86.6	87.7	87.5	88.8	89.1	90.8	89.9	94.1	98.3	102.3	102.3	83.3	84.7	84.2	85.8	86.0	87.7	86.6	91.3	95.2	99.4			
229.7	75.0	75.8	75.6	76.9	77.4	78.9	77.8	82.0	86.0	89.7	89.7	71.7	72.8	72.5	73.9	74.1	75.6	74.7	78.9	82.9	86.9			
242.8	64.6	65.5	65.3	66.4	66.8	68.1	67.5	71.4	75.0	78.7	78.7	61.3	62.4	61.9	63.3	63.5	65.0	64.2	68.1	72.1	75.8			
255.9	55.6	56.2	56.2	57.1	57.8	58.9	58.2	61.9	65.3	68.8	68.8	52.2	53.1	52.9	54.0	54.2	55.6	54.7	58.6	62.2	65.9			
269.0	47.6	48.3	48.1	48.9	49.4	50.5	49.8	53.4	56.7	59.5	59.5	44.1	45.0	44.8	45.6	46.1	47.2	46.5	50.0	53.6	57.1			
282.2	40.6	41.0	40.8	41.7	42.1	43.0	42.5	45.9	48.9	50.9	50.9	37.0	37.7	37.5	38.1	38.8	39.7	39.0	42.5	45.9	49.2			
292.0	35.8	-	36.0	36.6	37.3	38.0	37.6	40.7	43.7	45.5	45.5	32.2	32.7	32.5	33.2	33.8	34.7	34.1	37.4	40.3	43.3			
295.3	34.2	-	34.4	-	35.7	36.4	35.9	39.0	41.9	43.7	43.7	30.6	31.1	30.9	31.5	32.2	33.1	32.4	35.7	38.6	41.4			
298.6	-	-	33.0	-	34.3	34.8	34.4	37.5	40.3	42.0	42.0	29.2	29.5	29.4	30.1	30.7	31.6	30.9	34.2	37.0	39.8			
301.8	-	-	31.5	-	32.8	33.3	33.0	35.9	38.7	40.3	40.3	27.8	-	28.0	28.6	29.2	30.1	29.3	32.6	35.5	38.1			
308.4	-	-	-	-	30.0	-	30.0	32.8	35.5	37.5	37.5	24.9	-	25.1	25.8	26.2	27.1	26.5	29.5	32.4	34.8			
311.7	-	-	-	-	28.4	-	28.7	31.5	34.1	36.1	36.1	23.6	-	23.9	-	24.9	25.7	25.1	28.0	30.9	33.4			
318.2	-	-	-	-	-	-	26.0	28.7	31.2	33.3	33.3	-	-	21.3	-	22.3	22.9	22.5	25.2	28.0	30.4			
321.5	-	-	-	-	-	-	24.7	27.3	29.8	32.0	32.0	-	-	20.1	-	20.9	-	21.2	23.8	26.5	29.1			
331.4	-	-	-	-	-	-	-	23.5	25.8	27.6	27.6	-	-	-	-	17.4	-	17.5	20.0	22.5	25.3			
334.6	-	-	-	-	-	-	-	22.3	24.5	26.2	26.2	-	-	-	-	-	-	16.3	18.7	21.2	24.0			
337.9	-	-	-	-	-	-	-	21.2	23.3	25.0	25.0	-	-	-	-	-	-	15.2	17.6	20.0	22.7			
341.2	-	-	-	-	-	-	-	20.1	22.0	23.7	23.7	-	-	-	-	-	-	-	16.4	18.8	21.4			
347.8	-	-	-	-	-	-	-	-	19.6	21.2	21.2	-	-	-	-	-	-	-	14.1	16.5	18.7			
357.6	-	-	-	-	-	-	-	-	16.5	17.7	17.7	-	-	-	-	-	-	-	11.0	13.1	15.1			
360.9	-	-	-	-	-	-	-	-	15.4	16.5	16.5	-	-	-	-	-	-	-	11.9	13.9	-			
367.5	-	-	-	-	-	-	-	-	-	14.4	14.4	-	-	-	-	-	-	-	-	-	11.7			
374.0	-	-	-	-	-	-	-	-	-	12.3	12.3	-	-	-	-	-	-	-	-	-	-			
377.3	-	-	-	-	-	-	-	-	-	11.2	11.2	-	-	-	-	-	-	-	-	-	-			

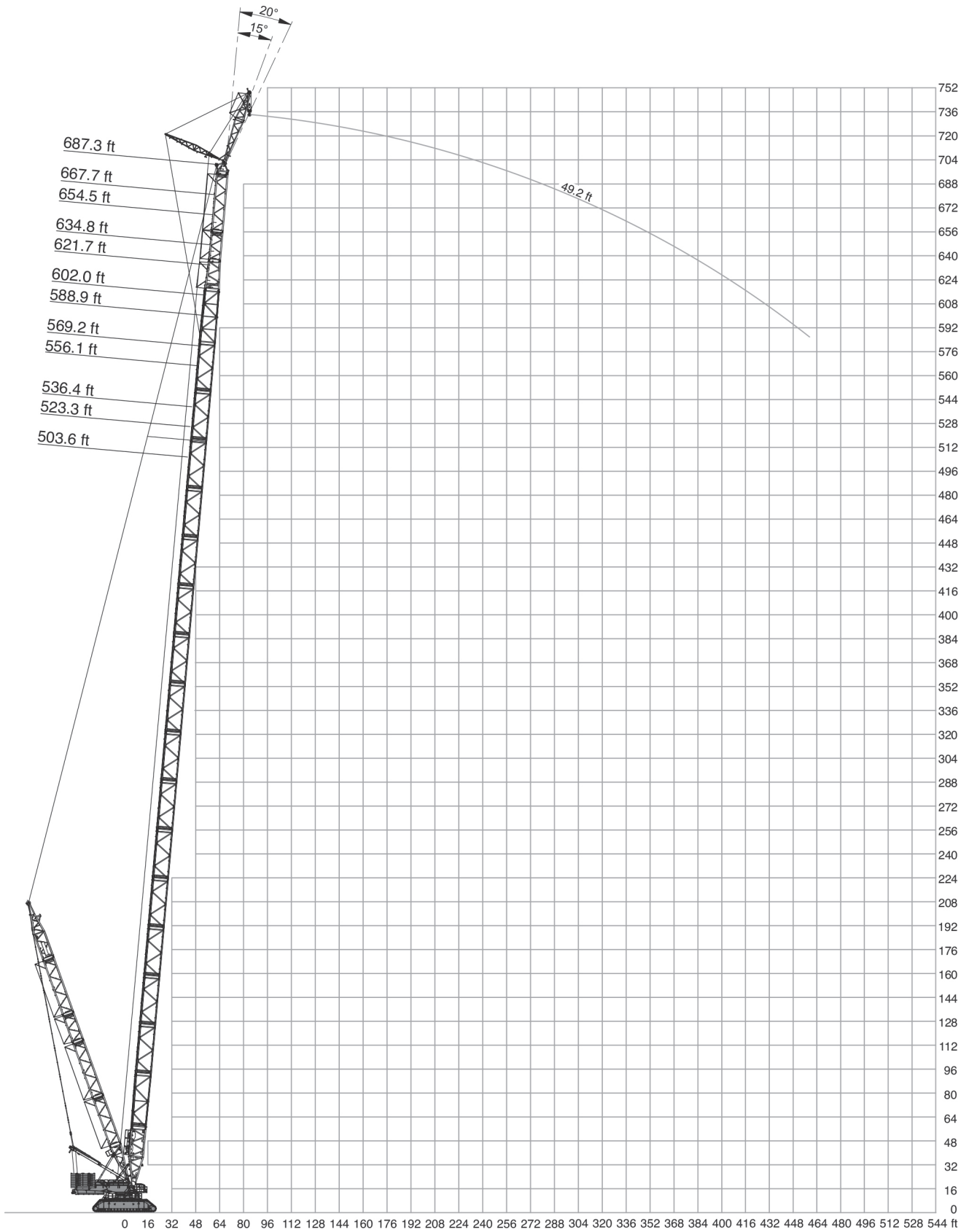
	374,800 lb	+		0 lb
	463,000 lb	+		0 lb
	551,200 lb	+		0 lb
	639,500 lb	+		44,100 lb
	639,500 lb	+		396,900 lb

# Operation

LH+LF\_7

+ <b>49.2 – 137.8 ft</b> <b>31.5 ft</b> <b>32.2 ft/s</b> <b>360°</b> <b>ASME B30.5</b>																								
315.0 ft										334.6 ft														
49.2 ft		59.0 ft		68.9 ft		78.7 ft		98.4 ft		118.1 ft		137.8 ft		49.2 ft		59.0 ft		68.9 ft		78.7 ft		98.4 ft		
15°		20°		15°		20°		15°		20°		15°		20°		15°		20°		15°		20°		
ft																								
1,000 lb																								
ft																								
52.5	551.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52.5
55.8	551.2	531.3	511.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55.8
59.1	551.2	529.1	509.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59.1
62.3	539.0	526.9	506.0	469.6	463.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62.3
65.6	526.9	524.7	502.7	469.6	460.8	416.7	421.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65.6
68.9	501.6	502.7	488.3	468.5	457.5	416.7	418.9	350.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68.9
72.2	476.2	480.6	474.0	467.4	454.2	416.7	416.7	350.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72.2
75.5	454.2	458.6	453.1	451.9	443.1	416.7	413.4	350.5	277.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75.5
78.7	432.1	436.5	432.1	436.5	432.1	416.7	410.1	350.5	277.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	78.7
82.0	413.4	417.8	413.4	417.8	413.4	409.0	401.2	348.3	277.8	222.7	-	-	-	-	-	-	-	-	-	-	-	-	-	82.0
85.3	394.6	399.0	394.6	399.0	394.6	401.2	392.4	346.1	277.8	222.7	-	-	-	-	-	-	-	-	-	-	-	-	-	85.3
91.9	361.6	366.0	361.6	366.0	361.6	368.2	361.6	341.7	277.8	222.7	-	-	-	-	-	-	-	-	-	-	-	-	-	91.9
98.4	332.9	337.3	332.9	337.3	332.9	339.5	332.9	332.9	277.8	222.7	-	-	-	-	-	-	-	-	-	-	-	-	-	98.4
111.5	284.4	286.6	284.4	288.8	286.6	291.0	286.6	286.6	275.6	222.7	-	-	-	-	-	-	-	-	-	-	-	-	-	111.5
124.7	238.1	240.3	240.3	242.5	242.5	244.7	242.5	249.1	249.1	219.4	-	-	-	-	-	-	-	-	-	-	-	-	-	124.7
137.8	200.6	202.8	202.8	205.0	205.0	208.3	206.1	211.6	217.2	213.8	-	-	-	-	-	-	-	-	-	-	-	-	-	137.8
150.9	172.0	174.2	173.1	175.3	175.3	177.5	176.4	181.9	186.3	190.7	-	-	-	-	-	-	-	-	-	-	-	-	-	150.9
164.0	146.6	148.8	148.8	151.0	151.0	153.2	152.1	156.5	160.9	165.3	-	-	-	-	-	-	-	-	-	-	-	-	-	164.0
177.2	125.7	127.9	126.8	129.0	129.0	131.2	130.1	135.6	140.0	144.4	-	-	-	-	-	-	-	-	-	-	-	-	-	177.2
190.3	107.1	108.9	108.5	110.2	110.2	112.4	111.3	116.8	121.3	126.8	-	-	-	-	-	-	-	-	-	-	-	-	-	190.3
203.4	91.7	93.3	92.6	94.6	94.6	96.8	95.5	100.5	105.2	109.8	-	-	-	-	-	-	-	-	-	-	-	-	-	203.4
216.5	78.0	79.6	79.1	80.7	80.9	82.9	81.6	86.4	90.8	95.2	-	-	-	-	-	-	-	-	-	-	-	-	-	216.5
229.7	66.4	67.7	67.2	68.8	68.8	70.8	69.4	74.1	78.3	82.7	-	-	-	-	-	-	-	-	-	-	-	-	-	229.7
242.8	56.0	57.1	56.7	58.0	58.4	60.0	58.9	63.3	67.5	71.4	-	-	-	-	-	-	-	-	-	-	-	-	-	242.8
255.9	46.7	47.8	47.4	48.7	48.9	50.5	49.6	53.4	57.5	61.5	-	-	-	-	-	-	-	-	-	-	-	-	-	255.9
269.0	38.6	39.5	39.2	40.3	40.8	42.1	41.2	43.9	48.3	52.5	-	-	-	-	-	-	-	-	-	-	-	-	-	269.0
282.2	31.5	32.2	32.0	32.8	33.3	34.4	33.7	35.7	39.5	43.4	-	-	-	-	-	-	-	-	-	-	-	-	-	282.2
295.3	24.9	25.6	25.4	26.2	26.7	27.8	26.9	28.9	31.7	35.5	-	-	-	-	-	-	-	-	-	-	-	-	-	295.3
308.4	19.2	19.6	19.4	20.1	20.7	21.6	20.9	23.4	25.4	28.4	-	-	-	-	-	-	-	-	-	-	-	-	-	308.4
315.0	16.5	17.0	16.8	17.4	18.0	18.8	18.2	20.6	22.7	25.4	-	-	-	-	-	-	-	-	-	-	-	-	-	315.0
318.2	15.2	-	15.4	16.1	16.6	17.5	16.8	19.2	21.4	23.8	-	-	-	-	-	-	-	-	-	-	-	-	-	318.2
321.5	13.9	-	14.1	14.8	15.2	16.1	15.4	17.9	20.1	22.3	-	-	-	-	-	-	-	-	-	-	-	-	-	321.5
324.8	12.8	-	12.9	13.4	14.0	14.9	14.2	16.5	18.8	21.0	-	-	-	-	-	-	-	-	-	-	-	-	-	324.8
328.1	11.7	-	11.7	-	12.9	13.7	12.9	15.1	17.5	19.7	-	-	-	-	-	-	-	-	-	-	-	-	-	328.1
331.4	-	-	-	-	11.7	12.5	11.7	13.7	16.3	18.5	-	-	-	-	-	-	-	-	-	-	-	-	-	331.4
334.6	-	-	-	-	-	11.2	-	12.3	15.0	17.2	-	-	-	-	-	-	-	-	-	-	-	-	-	334.6
337.9	-	-	-	-	-	-	-	11.2	13.7	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	337.9
344.5	-	-	-	-	-	-	-	-	11.2	13.7	-	-	-	-	-	-	-	-	-	-	-	-	-	344.5
347.8	-	-	-	-	-	-	-	-	-	12.6	-	-	-	-	-	-	-	-	-	-	-	-	-	347.8
351.1	-	-	-	-	-	-	-	-	-	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-	351.1

- 374,800 lb + 0 lb
- 463,000 lb + 0 lb
- 551,200 lb + 0 lb
- 639,500 lb + 44,100 lb
- 639,500 lb + 396,900 lb



# Operation

# LSL+LF\_4

551.2 klb + 132.3 klb ZB 59.0-98.4 ft 31.5 ft 32.2 ft/s 360° ASME B30.5																				
503.6 ft									523.3 ft											
49.2 ft			59.0 ft			68.9 ft			78.7 ft			98.4 ft			118.1 ft			137.8 ft		
0 lb - 1,191,000 lb									0 lb - 1,191,000 lb											
15°			20°			15°			20°			15°			20°			15°		
ft																				
1,000 lb																				
68.9	330.7	551.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
72.2	313.1	551.2	511.5	509.3	-	-	-	-	-	-	-	-	-	-	-	-	-			
75.5	295.4	551.2	504.9	501.6	-	-	-	-	-	304.2	551.2	-	-	-	-	-	-			
78.7	277.8	551.2	498.2	493.8	436.5	440.9	447.5	-	-	287.7	551.2	520.3	511.5	-	-	-	-			
82.0	263.7	541.8	491.1	486.1	431.0	434.3	400.1	-	-	257.4	544.0	512.6	503.8	456.4	460.8	418.9	-			
85.3	249.7	532.4	483.9	478.4	425.5	427.7	394.6	-	-	243.6	536.8	507.1	498.2	450.8	453.1	416.7	-			
88.6	235.6	523.0	476.7	470.7	420.0	421.1	389.1	324.1	-	229.8	529.7	501.6	492.7	448.1	449.2	414.5	346.1			
91.9	221.6	513.7	469.6	463.0	414.5	414.5	383.6	319.7	-	216.1	522.5	496.0	487.2	445.3	445.3	412.3	346.1			
95.1	210.5	504.9	461.9	454.7	407.9	407.9	377.0	315.0	271.2	205.0	513.7	488.9	479.5	439.3	439.3	406.8	343.4			
98.4	199.5	496.0	454.2	446.4	401.2	401.2	370.4	310.3	268.2	-	194.0	504.9	481.7	471.8	433.2	433.2	401.2			
101.7	188.5	487.2	446.4	438.2	394.6	394.6	363.8	305.6	265.3	228.2	183.0	496.0	474.5	464.1	427.1	427.1	395.7			
111.5	159.3	461.9	425.5	415.6	375.9	374.8	346.1	291.6	254.1	220.2	154.3	468.5	450.8	440.9	410.1	407.9	378.1			
124.7	123.6	430.6	399.8	388.0	353.5	350.2	324.4	273.4	238.5	208.7	118.8	432.1	418.1	409.3	387.3	382.1	355.7			
137.8	88.6	401.2	374.8	361.6	332.9	327.4	303.1	255.7	223.8	196.2	83.1	396.8	385.8	377.0	363.8	357.1	335.1			
150.9	60.1	373.3	354.2	340.2	314.5	307.5	285.5	241.0	211.3	185.2	54.5	366.0	357.9	349.1	337.3	331.4	314.5			
164.0	34.9	345.8	333.6	320.4	297.6	289.5	269.0	227.4	199.5	174.9	29.1	337.3	331.4	322.6	312.7	307.2	293.9			
173.9	18.5	325.4	318.2	306.6	286.0	277.4	257.4	218.1	191.3	167.7	12.6	317.5	312.7	303.9	295.6	290.1	278.5			
177.2	13.0	318.6	313.1	302.0	282.2	273.4	253.5	215.0	188.5	165.3	-	310.9	306.4	297.6	289.9	284.4	273.4			
190.3	-	297.3	292.3	283.7	269.0	260.1	240.9	204.7	179.7	157.3	-	288.8	285.1	277.0	269.8	265.3	254.6			
203.4	-	277.4	273.4	265.7	255.7	247.3	229.6	195.1	171.2	149.5	-	268.4	265.7	257.9	252.1	247.3	237.7			
216.5	-	259.0	255.7	248.0	242.5	234.8	219.4	186.3	163.1	142.2	-	250.2	248.0	240.3	235.9	230.4	221.6			
229.7	-	244.3	241.8	233.7	228.2	222.1	208.9	178.6	156.1	136.3	-	235.5	233.3	226.3	221.9	216.4	208.3			
242.8	-	230.8	228.9	221.2	216.1	210.5	199.5	170.9	150.3	131.0	-	221.9	220.1	213.1	209.1	203.6	196.2			
255.9	-	219.4	217.2	209.4	205.0	199.5	190.7	164.2	144.4	125.7	-	209.4	208.3	201.7	197.3	191.8	185.2			
269.0	-	209.1	207.6	199.5	195.5	190.0	181.9	158.4	138.5	120.5	-	199.2	198.8	191.1	188.5	183.0	175.5			
282.2	-	200.0	198.8	190.7	187.0	181.1	174.4	152.5	133.4	116.1	-	189.6	189.8	182.1	178.9	173.4	167.2			
295.3	-	191.8	190.7	183.0	179.7	173.1	166.4	147.7	129.0	112.4	-	181.9	181.9	174.2	170.9	165.3	159.8			
308.4	-	185.2	184.5	176.1	173.1	166.4	160.6	142.6	125.3	108.8	-	174.5	174.2	166.8	164.2	159.5	153.2			
321.5	-	178.9	178.2	170.1	167.2	160.9	155.1	138.2	121.6	105.3	-	167.9	167.9	160.6	158.4	152.9	147.2			
334.6	-	173.1	173.1	164.2	162.0	156.5	149.9	134.5	117.9	102.1	-	162.0	162.0	155.4	153.2	147.7	141.1			
347.8	-	167.9	167.9	159.8	157.6	151.8	144.8	130.1	115.0	99.4	-	157.6	157.6	150.3	148.8	143.3	136.7			
360.9	-	162.4	162.8	155.4	153.6	148.1	140.7	125.7	112.4	96.9	-	152.5	153.2	145.9	144.8	138.9	132.6			
374.0	-	156.5	157.6	151.0	149.9	144.4	137.8	121.3	109.6	94.6	-	146.6	148.8	142.2	141.1	134.5	129.0			
387.1	-	146.2	147.3	145.9	145.5	141.5	134.8	117.2	106.6	92.4	-	137.1	139.3	138.5	136.0	131.0	125.3			
400.3	-	133.4	134.5	139.3	139.3	137.8	131.2	114.0	103.5	90.3	-	122.9	125.2	131.0	128.6	126.4	122.0			
413.4	-	117.9	119.0	131.2	131.2	133.4	129.0	111.3	100.8	88.4	-	103.8	106.7	117.9	119.0	121.3	119.0			
426.5	-	103.8	105.2	113.9	116.7	126.0	126.8	109.4	98.5	86.3	-	89.9	91.6	99.7	103.3	109.9	112.1			
439.6	-	92.2	93.5	99.4	101.9	111.3	118.9	107.5	96.6	84.4	-	77.5	78.3	84.2	88.3	96.6	102.2			
452.8	-	82.9	84.7	87.5	89.9	97.9	105.4	105.6	95.2	82.7	-	66.8	67.0	71.4	73.9	81.4	89.7			
465.9	-	75.8	76.4	79.7	81.9	87.5	93.3	101.3	92.3	81.4	-	57.8	58.6	62.0	63.7	69.4	75.2			
479.0	-	70.4	70.5	73.0	74.1	78.6	82.6	95.7	88.2	79.3	-	50.6	51.1	53.6	54.9	59.3	63.0			
492.1	-	66.6	65.9	67.5	69.4	71.2	73.2	88.6	82.9	76.5	-	44.1	44.5	46.3	47.4	50.9	54.2			
502.0	-	-	-	64.8	66.6	67.6	68.8	81.9	79.0	73.4	-	40.6	40.6	41.7	42.8	45.9	48.0			
508.5	-	-	-	-	-	65.1	65.8	77.4	76.5	71.2	-	38.4	38.4	39.2	39.9	42.5	43.8			
511.8	-	-	-	-	-	63.9	64.4	75.2	75.2	70.1	-	-	-	37.9	38.6	41.0	41.9			
518.4	-	-	-	-	-	62.4	71.3	73.4	73.4	68.0	-	-	-	35.7	36.4	38.6	39.1			
528.2	-	-	-	-	-	-	66.0	70.8	65.0	-	-	-	-	-	35.1	34.9	41.8			
531.5	-	-	-	-	-	-	64.6	69.9	63.9	-	-	-	-	-	-	33.5	39.9			
538.1	-	-	-	-	-	-	62.2	66.5	61.9	-	-	-	-	-	-	31.3	37.0			
544.6	-	-	-	-	-	-	-	63.1	60.2	-	-	-	-	-	-	-	34.0			
554.5	-	-	-	-	-	-	-	57.9	57.4	-	-	-	-	-	-	-	30.0			
557.7	-	-	-	-	-	-	-	56.0	56.4	-	-	-	-	-	-	-	-			
570.9	-	-	-	-	-	-	-	52.2	52.2	-	-	-	-	-	-	-	-			
574.1	-	-	-	-	-	-	-	50.6	50.6	-	-	-	-	-	-	-	-			
577.4	-	-	-	-	-	-	-	48.9	48.9	-	-	-	-	-	-	-	-			
584.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
590.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

	0 lb	242,500 lb	374,800 lb	595,300 lb	815,800 lb	992,100 lb	1,191,000 lb
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# Operation

# LSL+LF\_4

551.2 klb + 132.3 klb ZB 59.0-98.4 ft 31.5 ft 32.2 ft/s 360° ASME B30.5																					
602.0 ft									621.7 ft												
49.2 ft			59.0 ft		68.9 ft	78.7 ft	98.4 ft	118.1 ft	137.8 ft		49.2 ft			59.0 ft		68.9 ft	78.7 ft	98.4 ft	118.1 ft	137.8 ft	
0 lb - 1,191,000 lb									0 lb - 1,191,000 lb												
15°			20°		15°	20°	15°			20°		15°	20°	15°			20°		15°		
ft																					
1,000 lb																					
78.7	213.8	454.2	-	-	-	-	-	-	-	207.2	407.9	-	-	-	-	-	-	-	-	-	
82.0	201.2	449.7	418.9	416.7	-	-	-	-	-	194.6	402.3	-	-	-	-	-	-	-	-	-	
85.3	188.5	445.3	415.2	412.3	374.8	377.0	-	-	-	181.9	396.8	381.4	372.6	-	-	-	-	-	-	-	
88.6	175.8	440.9	411.5	407.9	370.4	372.6	-	-	-	169.2	391.3	375.9	368.2	-	-	-	-	-	-	-	
91.9	163.1	436.5	407.9	403.4	366.0	368.2	337.3	-	-	156.5	385.8	370.4	363.8	348.3	343.9	316.4	-	-	-	-	
95.1	152.4	430.5	403.4	398.5	361.6	363.2	332.9	287.7	-	144.1	379.2	364.9	357.7	343.1	338.7	313.6	-	-	-	-	
98.4	141.6	424.4	399.0	393.5	357.1	358.3	328.5	284.4	-	131.7	372.6	359.4	351.6	337.9	333.4	312.0	282.2	-	-	-	
101.7	130.9	418.3	394.6	388.6	352.7	353.3	324.1	281.1	238.1	-	119.3	366.0	353.8	345.6	332.6	328.2	310.3	278.9	-	-	
105.0	120.2	412.3	390.2	383.6	348.3	348.3	319.7	277.8	235.2	-	106.9	359.4	348.3	339.5	327.4	323.0	308.6	275.6	240.3	-	
108.3	108.0	405.1	385.3	378.6	343.9	343.9	315.3	273.9	232.4	209.4	95.4	352.7	342.0	333.4	321.9	317.5	303.4	272.3	237.5	-	
111.5	95.8	397.9	380.3	373.7	339.5	339.5	310.9	270.1	229.5	207.2	83.9	346.1	335.7	327.4	316.4	312.0	298.2	269.0	234.8	209.4	
124.7	53.7	369.6	358.6	351.6	322.6	321.5	293.9	255.4	217.9	197.7	43.1	319.7	310.5	303.1	293.9	289.5	277.4	253.5	223.8	201.4	
134.5	27.2	348.7	341.0	333.4	310.5	307.7	281.8	244.9	209.1	190.0	16.5	299.8	291.7	284.9	276.9	272.5	262.0	240.3	215.5	194.2	
137.8	18.3	341.7	335.1	327.4	306.4	303.1	277.8	241.4	206.1	187.4	-	293.2	285.5	278.9	271.2	266.8	256.8	235.9	212.7	191.8	
150.9	-	314.5	308.9	302.3	289.9	285.5	262.9	228.2	195.1	176.9	-	269.0	263.5	256.8	250.4	246.2	237.0	218.9	200.6	182.2	
164.0	-	289.0	285.1	278.4	271.2	266.8	248.8	216.1	185.9	167.6	-	246.9	242.3	235.9	231.0	226.6	218.7	202.8	187.4	173.1	
177.2	-	265.7	262.4	256.8	251.3	246.9	234.8	205.0	176.4	158.7	-	227.1	222.7	217.2	212.7	208.3	201.7	187.4	174.2	160.9	
190.3	-	245.1	242.5	237.0	232.2	228.5	218.6	195.6	167.6	151.7	-	208.7	205.8	200.3	196.6	192.9	186.3	173.4	161.6	150.3	
203.4	-	226.3	224.5	219.0	215.0	211.3	202.8	185.9	159.5	144.4	-	191.8	189.6	184.5	181.5	178.2	172.0	160.6	149.5	139.3	
216.5	-	209.4	208.3	202.8	199.5	195.1	187.4	176.4	152.1	137.8	-	176.4	174.2	169.8	166.6	164.2	158.7	148.8	137.8	129.0	
229.7	-	195.5	195.1	189.6	186.3	182.5	174.7	164.2	145.9	131.2	-	163.1	161.7	157.3	155.0	151.7	147.3	137.4	127.9	120.2	
242.8	-	181.9	182.2	177.1	174.2	170.9	163.5	153.6	139.3	126.0	-	151.4	150.3	145.5	143.7	140.4	136.3	127.5	119.0	111.6	
255.9	-	169.8	169.8	165.3	163.1	159.8	153.2	143.3	133.4	120.2	-	141.1	140.0	134.5	133.4	130.1	126.8	117.9	110.2	103.2	
269.0	-	160.2	160.2	154.7	152.5	149.2	143.5	135.2	125.3	115.0	-	132.3	131.2	126.2	124.6	121.6	118.3	110.0	102.4	95.5	
282.2	-	151.0	151.0	145.5	143.9	140.5	133.8	127.1	117.9	109.9	-	123.7	122.7	117.9	116.5	114.2	111.0	102.5	95.1	88.7	
295.3	-	142.2	143.3	137.8	136.7	132.3	126.8	119.0	110.2	104.3	-	115.7	114.6	110.2	109.8	106.7	103.6	95.9	88.4	82.7	
308.4	-	134.5	135.2	130.4	129.0	125.7	120.2	112.6	103.6	98.1	-	110.0	108.8	104.1	103.5	100.2	97.3	90.0	82.7	77.5	
321.5	-	127.9	129.3	123.8	122.7	118.3	112.9	106.5	97.9	91.9	-	103.5	102.6	98.3	97.4	94.4	91.9	84.4	77.6	72.6	
334.6	-	121.3	123.5	117.9	116.8	112.4	107.1	100.8	92.6	86.9	-	97.2	96.3	93.0	91.7	88.8	87.1	79.1	72.8	67.7	
347.8	-	116.1	117.2	112.4	110.9	107.6	102.4	95.8	88.0	82.5	-	91.5	90.3	86.3	85.1	82.5	81.6	74.7	68.0	63.6	
360.9	-	111.3	112.4	107.6	106.4	103.0	97.8	91.3	83.3	77.7	-	86.2	84.8	80.7	79.7	77.1	77.1	70.0	63.9	59.7	
374.0	-	106.9	108.0	103.6	102.3	98.5	93.3	86.9	79.1	73.6	-	80.5	80.0	76.1	75.0	72.1	72.3	65.5	59.7	56.0	
387.1	-	103.4	104.5	99.5	98.5	94.9	89.6	83.3	75.6	70.2	-	76.1	75.3	71.2	70.3	68.0	68.0	61.2	55.6	52.7	
400.3	-	99.7	100.9	96.0	95.2	91.5	86.1	79.8	72.2	67.1	-	72.6	71.5	67.4	66.5	63.8	63.7	57.3	51.1	49.8	
413.4	-	95.9	97.2	92.6	92.2	88.4	82.9	76.7	69.2	64.2	-	69.2	68.1	64.2	63.3	60.4	60.2	53.8	47.6	47.0	
426.5	-	89.3	90.6	89.0	89.3	85.5	80.2	74.1	66.7	61.1	-	66.5	65.3	61.2	60.2	57.6	56.7	50.4	44.5	43.9	
439.6	-	80.8	82.1	82.3	83.5	81.0	77.0	71.6	64.1	58.5	-	61.1	60.6	57.6	56.7	54.5	53.1	47.8	41.5	40.1	
452.8	-	71.4	73.0	73.2	74.5	74.5	73.2	69.2	61.7	56.4	-	52.9	54.0	52.9	52.9	50.9	49.6	45.4	39.0	35.5	
465.9	-	62.0	63.4	64.1	65.6	66.4	66.6	65.1	59.4	54.5	-	42.2	44.8	46.0	48.1	47.0	44.8	43.3	36.8	31.1	
479.0	-	52.6	54.0	54.8	56.3	57.9	59.3	60.1	56.5	52.8	-	30.6	34.1	35.5	39.2	42.5	39.8	41.6	34.8	29.1	
492.1	-	43.4	44.8	45.9	47.2	48.9	51.1	54.2	53.1	51.1	-	19.0	22.5	23.1	26.0	29.8	30.9	40.1	32.8	27.3	
502.0	-	36.9	38.3	39.7	41.0	42.8	44.8	48.2	50.5	47.3	-	11.9	14.7	15.0	17.9	21.2	21.9	34.9	30.8	26.1	
505.3	-	34.8	36.1	37.6	38.9	40.7	42.6	46.2	49.2	46.1	-	-	12.1	12.8	15.3	18.3	19.0	33.2	30.1	25.8	
508.5	-	32.6	33.9	35.6	36.9	38.7	40.5	44.1	47.8	44.8	-	-	-	-	12.6	15.4	16.0	31.5	29.4	25.5	
511.8	-	30.4	31.7	33.5	34.8	36.6	38.4	42.1	46.5	43.4	-	-	-	-	-	12.6	13.0	29.8	28.7	25.1	
518.4	-	26.3	27.7	29.4	30.6	32.6	34.4	38.2	42.8	40.4	-	-	-	-	-	-	-	22.4	25.1	24.4	
528.2	-	20.1	21.6	23.2	24.4	26.5	28.4	32.4	37.1	35.9	-	-	-	-	-	-	-	11.2	19.7	23.3	
531.5	-	18.1	19.6	21.2	22.3	24.5	26.5	30.4	35.3	34.4	-	-	-	-	-	-	-	-	17.9	22.9	
538.1	-	14.3	15.8	16.9	17.9	20.4	22.6	26.8	31.5	30.9	-	-	-	-	-	-	-	-	13.0	19.3	
541.3	-	12.3	13.8	14.7	15.7	18.4	20.6	25.0	29.7	29.2	-	-	-	-	-	-	-	-	-	17.5	
544.6	-	-	11.9	12.6	13.4	16.4	18.7	23.2	27.8	27.5	-	-	-	-	-	-	-	-	-	15.7	
547.9	-	-	-	-	11.2	14.4	16.7	21.4	25.9	25.8	-	-	-	-	-	-	-	-	-	13.9	
551.2	-	-	-	-	12.3	14.8	19.6	24.0	24.0	24.0	-	-	-	-	-	-	-	-	-	12.1	
554.5	-	-	-	-	-	12.8	17.7	22.3	22.4	22.4	-	-	-	-	-	-	-	-	-	-	
557.7	-	-	-	-	-	-	15.9	20.5	20.7	20.7	-	-	-	-	-	-	-	-	-	-	
564.3	-	-	-	-	-	-	12.1	17.0	17.4	17.4	-	-	-	-	-	-	-	-	-	-	
570.9	-	-	-	-	-	-	-	13.4	14.1	14.1	-	-	-	-	-	-	-	-	-	-	
574.1	-	-	-	-	-	-	-	11.7	12.3	12.3	-	-	-	-	-	-	-	-	-	-	

0 lb 242,500 lb 374,800 lb 595,300 lb 815,800 lb 992,100 lb 1,191,000 lb

# Operation

LSL+LF\_4

551.2 klb + 132.3 klb ZB 59.0-98.4 ft 31.5 ft 32.2 ft/s 360° ASME B30.5																				
634.8 ft									654.5 ft											
49.2 ft			59.0 ft			68.9 ft			78.7 ft			98.4 ft			118.1 ft			137.8 ft		
0 lb - 1,191,000 lb									0 lb - 1,191,000 lb											
15°			20°			15°			20°			15°			20°			15°		
ft																				
1,000 lb																				
82.0	179.7	403.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
85.3	167.9	398.3	374.8	370.4	-	-	-	-	-	173.1	352.7	-	-	-	-	-	-			
88.6	156.2	393.2	371.5	367.1	335.1	337.3	-	-	-	161.3	348.3	337.3	330.7	-	-	-	-			
91.9	144.4	388.0	368.2	363.8	330.7	332.9	-	-	-	149.5	343.9	332.3	325.7	-	-	-	-			
98.4	115.2	377.0	359.4	353.8	323.5	324.6	304.8	260.1	-	108.8	328.5	318.0	310.9	302.0	297.1	281.1	-			
101.7	100.6	371.5	354.9	348.9	319.9	320.5	300.7	256.8	-	94.3	323.0	313.3	305.9	297.6	292.9	277.2	252.4			
105.0	86.0	366.0	350.5	343.9	316.4	316.4	296.5	253.5	216.1	79.8	317.5	308.6	300.9	293.2	288.8	273.4	248.9			
108.3	74.7	359.9	345.6	339.0	312.5	312.2	292.7	250.2	213.3	68.7	312.0	303.4	296.0	288.3	283.8	269.2	245.4			
111.5	63.5	353.8	340.6	334.0	308.6	308.1	288.8	246.9	210.5	57.7	306.4	298.2	291.0	283.3	278.9	265.1	241.8			
124.7	22.6	329.2	319.7	312.3	293.4	292.1	273.7	233.7	199.9	181.3	284.4	276.7	270.1	263.8	260.1	248.0	227.1			
128.0	13.4	323.0	314.2	306.4	289.7	288.3	270.1	230.4	197.3	178.9	278.6	271.2	264.6	259.0	255.2	243.6	223.2			
137.8	-	305.3	296.5	289.9	277.8	275.6	259.0	220.5	189.6	172.0	261.2	255.7	250.2	244.7	240.3	230.4	211.6			
150.9	-	281.8	275.2	268.6	260.1	256.5	245.1	209.4	180.0	163.1	241.4	235.9	230.4	226.3	221.9	213.5	196.9			
164.0	-	259.5	254.6	248.7	241.8	238.1	229.3	198.8	170.9	154.3	222.3	217.4	211.9	208.8	205.0	196.9	181.9			
177.2	-	239.2	234.8	229.3	223.8	220.5	212.7	188.5	162.0	146.6	203.9	200.6	195.1	192.9	189.6	181.9	168.7			
190.3	-	220.8	217.2	211.6	207.6	204.3	197.3	178.9	154.0	139.3	187.8	185.2	180.4	178.9	175.6	168.7	156.9			
203.4	-	203.9	201.0	195.5	192.4	188.5	182.4	168.9	146.6	132.5	172.0	170.9	166.4	164.2	162.0	155.4	145.0			
216.5	-	189.6	186.3	180.8	178.6	174.2	168.7	157.6	140.0	126.8	157.6	157.6	153.2	152.1	148.8	143.3	134.5			
229.7	-	177.1	174.5	169.0	166.1	162.4	157.3	146.6	133.6	120.9	144.4	144.4	140.0	140.4	137.1	133.0	124.2			
242.8	-	164.8	162.9	157.9	155.0	151.8	147.3	136.3	126.0	115.2	131.2	131.7	127.3	128.4	125.1	122.4	114.6			
255.9	-	152.1	152.1	147.7	145.5	142.2	137.8	126.8	117.9	109.8	120.2	120.2	115.7	116.8	114.6	111.3	105.8			
269.0	-	141.8	141.1	136.7	135.2	132.6	129.7	119.7	110.6	103.6	110.7	110.5	106.8	107.6	105.4	102.1	96.9			
282.2	-	131.9	131.2	127.5	126.0	123.5	120.5	112.0	103.7	97.3	101.5	101.1	98.1	99.1	97.0	93.8	88.5			
295.3	-	122.4	122.4	117.9	117.9	114.6	112.4	104.7	97.2	91.3	93.0	93.0	89.9	91.3	89.5	86.4	81.1			
308.4	-	114.3	113.8	109.6	109.4	107.1	105.1	98.3	91.1	86.0	85.8	85.8	81.9	84.0	82.1	78.9	74.8			
321.5	-	106.9	106.6	102.7	102.1	99.6	97.4	92.0	85.7	80.2	79.0	78.8	75.1	77.7	75.6	72.5	68.1			
334.6	-	100.1	99.6	95.9	95.5	93.0	90.8	86.0	80.2	75.0	72.5	72.3	68.8	71.9	69.4	66.4	62.2			
347.8	-	94.1	93.7	89.9	89.8	87.4	85.2	80.0	75.0	70.2	65.8	65.6	62.6	65.0	63.1	60.8	56.7			
360.9	-	88.5	88.4	84.4	84.4	81.6	80.2	74.6	69.2	65.4	60.6	60.1	57.0	60.0	58.1	55.5	51.5			
374.0	-	83.8	83.6	79.4	79.6	76.7	75.4	69.9	64.6	60.8	55.6	55.1	51.8	55.3	53.4	50.5	46.5			
387.1	-	79.4	79.2	75.4	75.2	72.8	71.1	65.2	60.6	56.9	50.6	50.4	47.4	51.0	49.2	46.2	41.8			
400.3	-	75.2	75.2	71.4	70.9	68.8	67.2	61.5	56.2	53.1	46.7	46.3	43.2	47.1	45.0	42.0	37.8			
413.4	-	71.7	71.4	67.5	67.2	64.8	63.3	58.0	51.8	49.4	43.2	42.8	39.7	43.4	41.0	38.4	34.0			
426.5	-	68.1	68.0	64.5	64.3	61.2	60.0	54.6	48.4	46.2	40.0	39.8	36.6	39.5	37.8	35.4	30.4			
439.6	-	63.3	63.7	61.7	61.3	58.3	57.0	51.3	45.2	43.4	36.7	36.8	33.9	36.1	34.7	32.5	27.6			
452.8	-	57.1	58.4	58.9	58.2	55.6	54.2	48.5	42.3	40.6	33.5	33.7	31.5	32.8	31.7	30.0	24.9			
465.9	-	48.1	49.5	49.7	50.5	50.5	50.5	46.3	39.5	37.9	29.8	30.4	29.0	29.5	29.0	27.4	22.7			
479.0	-	39.2	40.5	40.8	42.0	42.8	43.9	43.1	37.3	35.5	25.1	26.2	26.4	25.9	26.0	25.2	20.5			
492.1	-	30.4	31.5	32.0	33.5	35.1	36.2	39.0	35.5	33.5	19.2	21.4	23.6	22.3	22.9	23.1	18.7			
502.0	-	24.3	25.4	25.7	27.0	28.7	30.0	33.6	32.4	31.5	11.5	13.6	16.0	14.3	17.4	22.0	17.3			
505.3	-	22.2	23.3	23.6	24.8	26.5	27.9	31.8	31.4	30.9	-	11.0	13.5	11.7	15.5	21.6	16.8			
508.5	-	20.1	21.2	21.5	22.7	24.4	25.9	30.0	30.4	30.2	-	-	11.0	-	13.7	21.2	16.4			
511.8	-	18.1	19.2	19.4	20.5	22.3	23.8	28.2	29.3	29.5	-	-	-	-	-	-	15.9			
518.4	-	14.0	15.1	15.7	16.8	18.5	19.8	24.4	26.5	26.4	-	-	-	-	-	-	14.6			
521.7	-	11.9	13.1	13.8	14.9	16.6	17.9	22.5	25.0	24.8	-	-	-	-	-	-	14.0			
524.9	-	-	11.0	11.9	13.1	14.8	15.9	20.6	23.6	23.2	-	-	-	-	-	-	13.4			
528.2	-	-	-	-	11.2	12.9	13.9	18.7	22.2	21.6	-	-	-	-	-	-	12.8			
531.5	-	-	-	-	-	11.0	11.9	16.8	20.7	20.1	-	-	-	-	-	-	-			
538.1	-	-	-	-	-	-	-	12.8	17.1	16.5	-	-	-	-	-	-	-			
544.6	-	-	-	-	-	-	-	-	13.5	13.0	-	-	-	-	-	-	-			
547.9	-	-	-	-	-	-	-	-	11.7	-	-	-	-	-	-	-	-			

0 lb 242,500 lb 374,800 lb 595,300 lb 815,800 lb 992,100 lb 1,191,000 lb

# Operation

LSL+LF\_4

551.2 klb + 132.3 klb ZB 59.0-98.4 ft 31.5 ft 32.2 ft/s 360° ASME B30.5

667.7 ft 687.3 ft

49.2 ft 59.0 ft 68.9 ft 49.2 ft

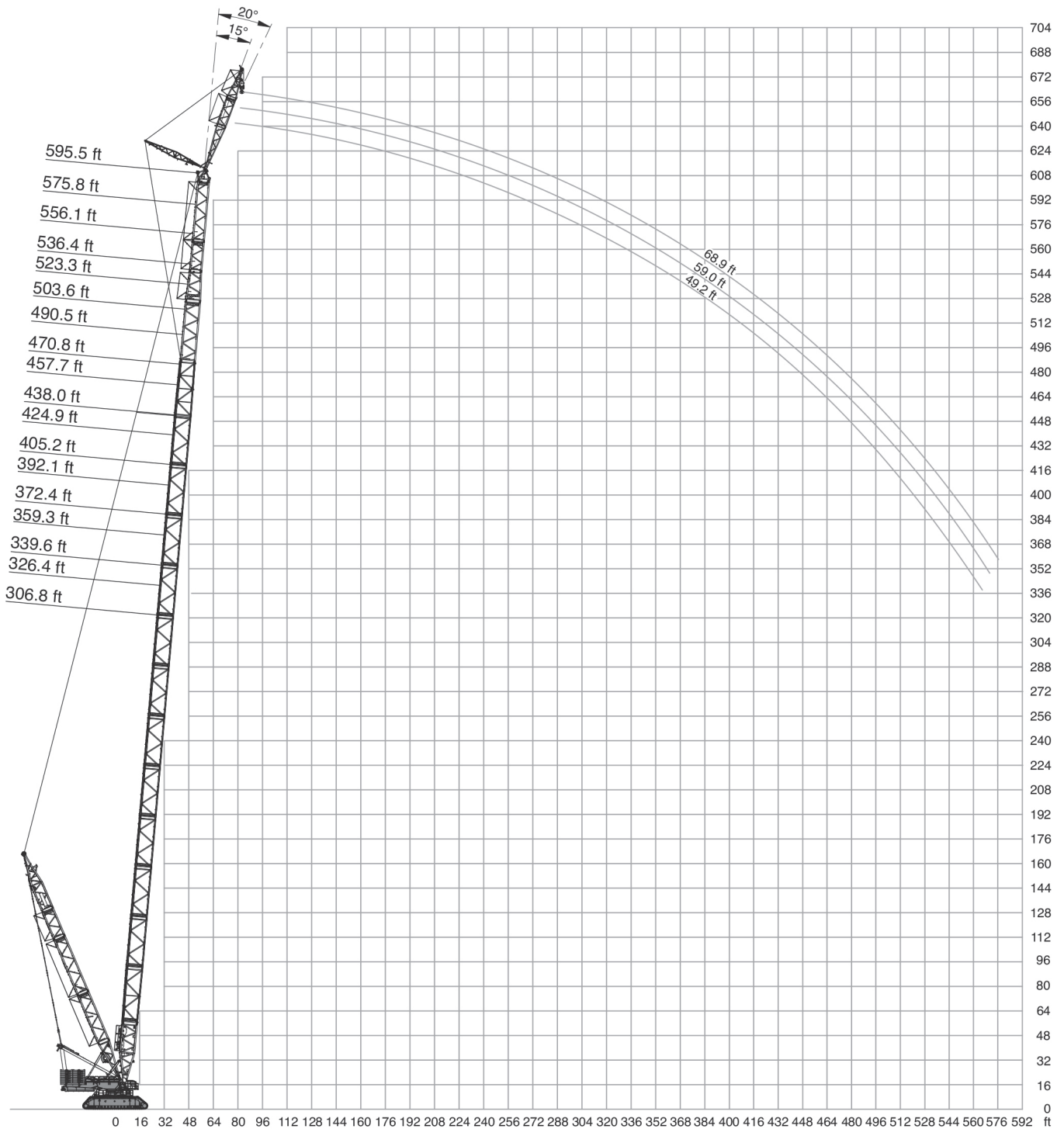
0 lb 0 lb - 1,191,000 lb 0 lb 0-1,191 klb

15° 20° 15° 20° 15° 15° 20°

ft	1,000 lb										ft
85.3	147.7	346.1	-	-	-	-	114.6	316.4	-	-	85.3
88.6	130.6	341.7	328.5	321.9	-	-	98.0	314.7	307.5	-	88.6
91.9	113.5	337.3	324.1	317.5	303.1	299.8	81.4	313.1	304.2	-	91.9
98.4	85.0	327.9	315.8	308.6	296.5	293.2	55.3	307.0	297.1	-	98.4
108.3	45.3	313.9	302.9	295.4	285.8	282.6	17.9	296.5	285.5	-	108.3
111.5	34.2	309.2	298.2	291.0	281.6	278.5	-	291.7	281.1	-	111.5
118.1	11.9	299.8	288.8	282.2	273.4	270.1	-	282.2	273.4	-	118.1
124.7	-	289.9	279.8	273.0	264.9	261.6	-	273.0	264.6	-	124.7
137.8	-	270.1	261.2	254.6	248.0	244.7	-	254.6	246.9	-	137.8
150.9	-	251.0	243.6	237.0	231.5	228.5	-	235.9	229.8	-	150.9
164.0	-	233.0	227.8	221.2	216.4	213.1	-	219.0	214.2	-	164.0
177.2	-	216.1	211.6	205.0	201.7	198.4	-	202.8	199.5	-	177.2
190.3	-	199.5	195.8	190.9	187.6	184.3	-	187.4	184.8	-	190.3
203.4	-	183.4	181.5	176.4	174.5	171.2	-	172.3	170.5	-	203.4
216.5	-	168.7	167.6	163.1	162.0	158.7	-	157.6	156.5	-	216.5
229.7	-	156.3	155.4	150.3	150.3	147.0	-	144.8	144.4	-	229.7
242.8	-	144.4	144.4	139.3	139.6	136.3	-	133.7	133.7	-	242.8
255.9	-	133.4	133.4	129.0	130.1	126.8	-	123.5	123.5	-	255.9
269.0	-	123.8	122.7	119.0	119.4	116.8	-	113.4	113.4	-	269.0
282.2	-	114.9	114.0	110.6	111.0	108.7	-	104.9	104.9	-	282.2
295.3	-	106.5	106.0	102.5	103.6	101.2	-	97.0	97.0	-	295.3
308.4	-	99.2	98.2	94.9	96.0	93.6	-	89.6	89.7	-	308.4
321.5	-	92.3	91.4	88.3	89.5	87.1	-	83.0	83.1	-	321.5
334.6	-	86.0	85.3	82.2	83.6	81.1	-	77.2	76.9	-	334.6
347.8	-	79.5	80.0	76.5	78.0	75.8	-	71.0	70.8	-	347.8
360.9	-	74.3	74.1	70.7	72.7	70.5	-	66.0	65.8	-	360.9
374.0	-	69.4	69.2	66.1	67.7	65.9	-	61.3	61.1	-	374.0
387.1	-	65.1	65.0	62.0	63.7	61.8	-	56.7	56.8	-	387.1
400.3	-	61.1	61.1	57.6	59.6	57.5	-	52.5	52.7	-	400.3
413.4	-	57.3	57.3	53.4	55.8	53.8	-	48.5	48.7	-	413.4
426.5	-	53.3	53.1	49.7	52.1	50.3	-	45.2	45.0	-	426.5
439.6	-	47.0	47.8	45.9	47.6	46.3	-	40.3	40.5	-	439.6
452.8	-	39.7	41.4	42.1	41.2	41.2	-	33.7	35.1	-	452.8
465.9	-	30.1	31.9	32.8	32.3	34.2	-	26.5	27.7	-	465.9
479.0	-	21.1	23.0	23.3	22.7	25.6	-	15.6	17.6	-	479.0
482.3	-	19.0	20.9	20.8	20.2	23.1	-	11.9	14.3	-	482.3
492.1	-	12.6	14.8	13.4	12.6	15.7	-	-	-	-	492.1
495.4	-	-	12.3	-	-	13.0	-	-	-	-	495.4

0 lb 242,500 lb 374,800 lb 595,300 lb 815,800 lb 992,100 lb 1,191,000 lb





# Operation

LSL+LF\_6

551.2 klb + 132.3 klb ZB 59.0-98.4 ft 31.5 ft 32.2 ft/s 360° ASME B30.5

306.8 ft 326.4 ft

49.2 ft 59.0 ft 68.9 ft 78.7 ft 98.4 ft 118.1 ft 137.8 ft 49.2 ft 59.0 ft 68.9 ft 78.7 ft 98.4 ft 118.1 ft 137.8 ft

0 lb 0 lb - 1,191,000 lb 0 lb 0 lb - 1,191,000 lb






15° 20° 15° 20° 15° 20° 15° 20° 15°

ft	1,000 lb															
52.5	551.2	551.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55.8	547.8	551.2	551.2	551.2	-	-	-	-	-	551.2	551.2	-	-	-	-	-
59.1	544.5	551.2	551.2	551.2	-	551.2	-	-	-	531.3	551.2	551.2	551.2	-	-	-
62.3	514.8	551.2	551.2	551.2	551.2	551.2	551.2	515.9	-	-	502.7	551.2	551.2	551.2	551.2	551.2
65.6	485.0	551.2	551.2	551.2	546.7	551.2	509.3	-	-	474.0	551.2	551.2	551.2	551.2	551.2	546.7
68.9	461.9	551.2	551.2	551.2	537.9	548.4	502.1	416.7	-	-	451.4	551.2	551.2	551.2	550.1	551.2
72.2	438.7	551.2	551.2	551.2	529.1	545.6	494.9	410.1	-	-	428.8	551.2	551.2	551.2	549.0	551.2
75.5	415.6	551.2	551.2	551.2	520.3	542.9	487.8	403.4	-	-	406.2	551.2	551.2	551.2	547.8	551.2
78.7	392.4	551.2	551.2	551.2	511.5	540.1	480.6	396.8	330.7	-	383.6	551.2	551.2	551.2	546.7	551.2
82.0	375.3	551.2	551.2	551.2	503.8	531.3	472.9	389.7	324.6	282.2	367.1	551.2	551.2	551.2	539.0	547.8
85.3	358.3	551.2	551.2	551.2	496.0	522.5	465.2	382.5	318.6	277.8	350.5	551.2	551.2	551.2	531.3	544.5
91.9	324.1	551.2	551.2	551.2	486.0	504.9	449.7	368.2	306.4	269.0	317.5	551.2	551.2	551.2	515.9	537.9
98.4	297.6	551.2	544.5	546.7	466.3	487.2	434.3	354.9	295.4	259.0	291.0	551.2	551.2	551.2	500.4	518.1
111.5	250.2	551.2	523.6	526.9	439.8	454.2	405.7	330.7	275.6	241.4	244.7	551.2	550.1	544.5	472.9	481.7
124.7	213.1	551.2	496.8	496.8	417.4	426.2	380.7	310.9	258.8	226.3	208.7	551.2	535.7	521.0	449.7	450.5
137.8	180.8	551.2	471.8	467.4	396.8	401.2	359.4	293.2	242.5	211.6	176.4	551.2	509.3	487.2	427.7	421.1
150.9	150.6	523.2	451.2	442.4	377.7	380.7	338.8	277.0	229.3	199.9	147.7	539.4	487.2	459.3	408.6	396.1
164.0	124.6	496.8	431.4	419.6	360.8	361.6	319.7	262.4	217.2	189.2	122.4	520.3	465.9	434.3	391.0	374.1
177.2	102.5	471.8	412.3	399.0	346.1	343.9	302.0	249.1	206.1	179.7	100.5	493.8	445.3	412.3	374.8	354.9
190.3	84.9	451.2	396.1	379.9	332.9	327.8	287.3	235.9	196.6	170.9	82.6	470.3	427.7	393.2	360.1	337.3
203.4	68.6	432.1	381.4	362.3	320.4	312.3	274.1	223.8	187.8	162.8	66.2	449.0	411.5	374.8	346.1	321.1
216.5	53.6	414.5	368.2	346.1	308.6	297.6	262.4	212.7	179.7	155.4	51.4	429.9	396.8	357.1	332.9	306.4
229.7	42.5	398.3	356.4	332.9	298.4	285.9	250.6	203.9	172.3	148.8	39.0	412.3	385.1	343.9	322.6	294.7
242.8	32.0	383.6	346.1	320.4	288.8	274.8	240.3	195.5	165.3	142.6	28.0	396.8	374.1	330.7	312.3	283.7
255.9	21.8	370.4	337.3	308.6	280.0	264.6	231.5	187.4	158.7	136.7	18.3	383.6	363.8	317.5	302.0	273.4
265.7	15.5	361.1	330.7	300.7	274.7	257.9	225.4	182.4	154.3	133.4	11.7	372.6	354.9	310.9	297.1	265.1
269.0	13.4	358.0	328.5	298.1	272.9	255.7	223.4	180.8	152.9	132.3	-	369.6	352.7	307.9	295.4	262.4
272.3	11.2	354.9	326.3	295.4	271.2	253.5	221.4	179.1	151.4	131.2	-	366.7	350.5	305.0	293.2	260.1
282.2	-	347.6	321.1	288.8	266.0	247.7	216.1	174.2	147.3	127.9	-	357.1	345.4	297.6	287.3	254.3
295.3	-	337.3	315.3	280.0	260.1	240.3	209.4	168.7	142.2	123.5	-	343.9	339.5	288.8	280.0	246.9
308.4	-	322.6	310.9	272.6	255.7	234.4	203.6	163.5	137.8	119.0	-	323.3	321.9	281.5	274.1	239.6
321.5	-	306.4	306.4	266.3	251.8	228.5	198.0	158.7	133.4	115.0	-	304.2	305.0	274.1	269.7	233.7
331.4	-	-	-	262.4	249.1	224.1	194.2	155.4	130.1	112.3	-	291.0	292.8	268.6	267.5	230.4
334.6	-	-	-	-	-	222.7	192.9	154.3	129.0	111.3	-	286.6	288.8	266.8	266.8	229.3
337.9	-	-	-	-	-	222.7	192.2	153.6	128.1	110.5	-	284.4	284.4	265.7	265.7	227.8
341.2	-	-	-	-	-	220.5	191.4	152.9	127.3	109.7	-	-	-	264.6	264.6	226.3
347.8	-	-	-	-	-	-	189.6	151.0	125.7	108.1	-	-	-	262.4	262.4	223.4
351.1	-	-	-	-	-	-	188.5	149.9	124.6	107.3	-	-	-	-	221.9	192.9
357.6	-	-	-	-	-	-	-	148.3	122.9	105.8	-	-	-	-	220.5	191.0
360.9	-	-	-	-	-	-	-	147.7	122.4	105.1	-	-	-	-	-	190.1
367.5	-	-	-	-	-	-	-	146.6	121.3	103.7	-	-	-	-	-	188.5
374.0	-	-	-	-	-	-	-	-	120.2	102.3	-	-	-	-	-	-
387.1	-	-	-	-	-	-	-	-	117.9	99.9	-	-	-	-	-	145.5
400.3	-	-	-	-	-	-	-	-	-	97.8	-	-	-	-	-	-
403.5	-	-	-	-	-	-	-	-	-	97.3	-	-	-	-	-	-
406.8	-	-	-	-	-	-	-	-	-	96.8	-	-	-	-	-	-
413.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
423.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96.8

0 lb 110,250 lb 242,500 lb 374,800 lb 595,300 lb 815,800 lb 992,100 lb 1,191,000 lb

# Operation

# LSL+LF\_6

    																				
339.6 ft									359.3 ft											
49.2 ft			59.0 ft			68.9 ft			78.7 ft			98.4 ft			118.1 ft			137.8 ft		
0 lb - 1,191,000 lb									0 lb - 1,191,000 lb											
15°			20°			15°			20°			15°			20°			15°		
ft																				
55.8	544.5	551.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
59.1	513.7	551.2	551.2	551.2	551.2	-	-	-	-	500.4	551.2	551.2	551.2	-	-	-	-			
62.3	485.0	551.2	551.2	551.2	540.1	551.2	-	-	-	472.9	551.2	551.2	551.2	-	-	-	-			
65.6	456.4	551.2	551.2	551.2	537.9	544.5	491.6	-	-	445.3	551.2	551.2	551.2	551.2	551.2	-	-			
68.9	434.3	551.2	551.2	551.2	532.4	540.1	487.2	-	-	423.8	551.2	551.2	551.2	551.2	551.2	531.3	-			
72.2	412.3	551.2	551.2	551.2	526.9	535.7	482.8	396.8	-	402.3	551.2	551.2	551.2	551.2	551.2	524.7	-			
75.5	390.2	551.2	551.2	551.2	521.4	531.3	478.4	393.5	-	380.8	551.2	551.2	551.2	551.2	551.2	518.1	425.5			
78.7	368.2	551.2	551.2	551.2	515.9	526.9	474.0	390.2	321.9	-	359.4	551.2	551.2	551.2	551.2	511.5	418.9			
82.0	351.6	551.2	551.2	551.2	509.3	521.4	469.6	385.3	318.6	-	343.4	551.2	551.2	551.2	544.0	549.5	503.2			
85.3	335.1	551.2	551.2	551.2	502.7	515.9	465.2	380.3	315.3	275.6	327.4	551.2	551.2	551.2	536.8	547.8	494.9			
88.6	318.6	551.2	551.2	551.2	496.0	510.4	460.8	375.3	312.0	272.3	311.4	551.2	551.2	551.2	529.7	546.2	486.7			
91.9	302.0	551.2	551.2	551.2	489.4	504.9	456.4	370.4	308.6	269.0	295.4	551.2	551.2	551.2	522.5	544.5	478.4			
98.4	276.7	551.2	551.2	551.2	476.2	492.7	443.1	360.5	298.7	261.2	270.1	551.2	551.2	551.2	509.3	528.0	464.1			
111.5	230.9	551.2	537.9	539.0	450.8	466.3	416.7	339.5	281.1	244.7	224.9	551.2	551.2	551.2	483.9	496.0	436.5			
124.7	194.4	551.2	512.2	512.9	428.4	440.2	392.4	319.7	265.3	229.6	189.6	551.2	542.3	537.2	460.8	465.9	410.1			
137.8	162.0	551.2	487.2	485.0	407.9	416.7	370.4	302.0	249.1	217.2	158.7	551.2	524.7	509.3	438.7	436.5	383.6			
150.9	135.6	536.5	466.6	460.0	390.2	396.1	351.3	285.9	235.9	205.4	132.3	551.2	501.2	481.3	421.1	413.0	361.6			
164.0	110.8	516.6	446.8	437.3	374.1	377.0	333.6	271.2	224.1	194.7	107.7	539.4	479.1	455.6	403.4	391.0	341.7			
177.2	87.7	491.6	427.7	416.7	359.4	359.4	317.5	257.9	213.8	185.2	85.1	515.9	458.6	432.1	385.8	370.4	324.1			
190.3	70.1	471.1	411.5	397.6	344.7	343.2	301.3	246.2	204.3	176.4	66.0	493.8	442.4	411.5	371.1	352.7	309.4			
203.4	53.7	451.9	396.1	379.9	331.4	327.8	286.6	234.4	195.1	168.3	49.0	472.5	427.0	392.4	357.1	336.6	295.4			
216.5	38.6	434.3	381.4	363.8	319.7	313.1	273.4	222.7	186.3	160.9	34.2	451.9	412.3	374.8	343.9	321.9	282.2			
229.7	26.2	419.6	369.6	350.5	309.4	301.3	263.1	213.8	178.9	154.3	22.6	434.3	399.0	360.1	333.6	308.6	270.4			
242.8	15.1	404.9	359.4	337.3	299.8	289.2	252.6	205.4	172.3	148.4	11.5	416.7	388.0	346.1	323.3	297.6	259.0			
246.1	12.6	401.2	357.1	334.0	297.6	286.2	250.0	203.4	170.9	147.2	-	413.4	385.3	343.4	320.8	295.4	256.3			
255.9	-	390.2	350.5	324.1	291.0	277.8	242.5	197.3	166.4	143.3	-	403.4	377.0	335.1	313.1	286.6	249.1			
269.0	-	374.1	341.7	313.8	283.7	269.0	233.7	189.8	159.8	138.2	-	377.0	366.7	323.3	305.7	276.3	240.3			
282.2	-	354.2	333.6	304.2	276.3	260.1	226.0	183.0	154.7	133.4	-	352.0	351.3	312.3	298.4	266.8	232.2			
295.3	-	330.7	326.3	295.4	269.0	251.3	219.4	176.4	148.8	129.0	-	328.5	330.7	302.0	291.0	257.9	224.9			
308.4	-	311.3	310.1	286.6	264.6	244.7	212.7	171.4	143.7	124.6	-	308.6	308.6	293.2	284.0	251.3	218.8			
321.5	-	293.2	293.2	278.5	259.3	238.5	207.2	166.4	139.3	120.5	-	291.0	291.0	285.1	279.3	244.0	212.0			
334.6	-	275.6	275.6	271.2	255.7	231.5	201.7	160.9	135.6	116.8	-	273.4	273.4	273.4	273.4	238.1	206.1			
347.8	-	259.7	259.7	259.4	251.3	227.1	197.3	157.3	131.2	113.2	-	257.2	258.7	258.7	258.7	232.2	201.7			
351.1	-	255.7	255.7	256.5	250.2	226.0	196.2	156.3	130.1	112.3	-	253.2	255.0	255.0	255.0	230.8	200.6			
357.6	-	-	-	249.1	249.1	223.8	194.2	154.6	128.4	110.6	-	245.8	247.5	247.7	248.0	228.2	198.4			
360.9	-	-	-	-	-	222.7	193.3	153.8	127.9	109.9	-	242.5	243.6	244.0	244.7	227.1	197.3			
367.5	-	-	-	-	-	220.5	191.4	152.1	126.3	108.4	-	235.9	235.9	236.6	238.1	224.9	195.1			
374.0	-	-	-	-	-	189.6	149.9	149.9	124.6	106.9	-	-	-	229.3	231.5	222.7	192.9			
377.3	-	-	-	-	-	188.5	149.4	123.8	106.3	106.3	-	-	-	227.1	227.1	221.9	192.0			
383.9	-	-	-	-	-	-	148.3	122.4	104.9	104.9	-	-	-	-	220.5	190.5	151.0			
387.1	-	-	-	-	-	-	147.7	121.6	104.3	104.3	-	-	-	-	-	189.8	150.3			
393.7	-	-	-	-	-	-	146.6	120.2	103.0	103.0	-	-	-	-	-	188.5	148.8			
397.0	-	-	-	-	-	-	145.5	119.6	102.4	102.4	-	-	-	-	-	-	148.3			
400.3	-	-	-	-	-	-	-	119.0	101.8	101.8	-	-	-	-	-	-	147.7			
413.4	-	-	-	-	-	-	-	116.8	99.4	99.4	-	-	-	-	-	-	145.5			
416.7	-	-	-	-	-	-	-	116.8	99.0	99.0	-	-	-	-	-	-	119.0			
426.5	-	-	-	-	-	-	-	-	97.7	97.7	-	-	-	-	-	-	117.7			
433.1	-	-	-	-	-	-	-	-	96.8	96.8	-	-	-	-	-	-	116.8			
436.4	-	-	-	-	-	-	-	-	96.3	96.3	-	-	-	-	-	-	98.4			
439.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98.0			
452.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96.3			

							
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# Operation

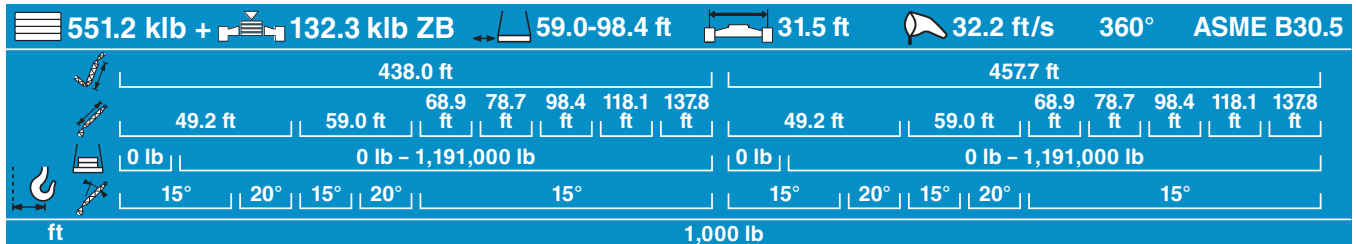
# LSL+LF\_6

551.2 klb + 132.3 klb ZB 59.0-98.4 ft 31.5 ft 32.2 ft/s 360° ASME B30.5																											
405.2 ft										424.9 ft																	
49.2 ft		59.0 ft		68.9 ft		78.7 ft		98.4 ft		118.1 ft		137.8 ft		49.2 ft		59.0 ft		68.9 ft		78.7 ft		98.4 ft		118.1 ft		137.8 ft	
0 lb - 1,191,000 lb										0 lb - 1,191,000 lb																	
15°		20°		15°		20°		15°		20°		15°		20°		15°		20°		15°		20°		15°		20°	
ft										1,000 lb																	
62.3	427.7	551.2	-	-	-	-	-	-	-	-	416.7	551.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
65.6	403.4	551.2	551.2	551.2	-	-	-	-	-	-	392.4	551.2	551.2	551.2	-	-	-	-	-	-	-	-	-	-	-	-	-
68.9	383.6	551.2	551.2	551.2	493.8	500.4	-	-	-	-	373.1	551.2	551.2	551.2	-	-	-	-	-	-	-	-	-	-	-	-	-
72.2	363.8	551.2	551.2	551.2	490.9	496.8	443.1	-	-	-	353.8	551.2	551.2	551.2	522.5	526.2	478.4	-	-	-	-	-	-	-	-	-	-
78.7	324.1	551.2	551.2	551.2	485.0	489.4	436.5	359.4	-	-	315.3	551.2	551.2	551.2	513.7	515.9	469.6	394.6	-	-	-	-	-	-	-	-	-
85.3	293.2	551.2	544.5	539.0	477.3	479.5	428.8	353.8	297.6	-	285.5	551.2	547.8	543.4	499.3	500.4	457.5	388.0	324.1	-	-	-	-	-	-	-	-
91.9	262.4	551.2	537.9	526.9	469.6	469.6	421.1	348.3	293.2	251.3	255.7	551.2	544.5	535.7	485.0	485.0	445.3	381.4	321.9	-	-	-	-	-	-	-	-
95.1	250.5	551.2	530.2	518.1	464.1	463.0	415.6	345.0	291.0	249.7	244.2	550.6	537.4	528.0	478.4	477.3	438.7	375.9	318.6	277.8	-	-	-	-	-	-	-
98.4	238.7	551.2	522.5	509.3	458.6	456.4	410.1	341.7	288.8	248.0	232.6	550.1	530.2	520.3	471.8	469.6	432.1	370.4	315.3	274.1	-	-	-	-	-	-	-
111.5	195.7	535.7	490.5	475.1	434.3	428.8	386.9	326.3	278.9	240.3	190.1	533.5	500.4	487.2	445.3	439.8	405.7	349.4	299.8	260.1	-	-	-	-	-	-	-
124.7	161.3	503.4	460.8	443.9	409.3	401.2	363.0	307.9	266.0	230.8	156.2	501.9	471.1	454.9	419.6	412.3	380.7	329.2	282.9	246.9	-	-	-	-	-	-	-
137.8	131.2	469.6	434.3	414.5	385.8	374.8	339.5	288.8	251.3	220.5	126.8	469.6	443.1	425.5	394.6	385.8	357.1	308.6	266.8	233.7	-	-	-	-	-	-	-
150.9	103.4	441.7	410.8	391.0	365.2	354.2	320.4	272.6	238.1	208.7	98.4	440.2	418.1	400.5	374.1	363.8	336.6	292.5	253.5	222.7	-	-	-	-	-	-	-
164.0	78.5	415.2	388.7	368.9	346.1	334.4	302.8	257.9	225.6	197.7	73.3	413.0	394.6	377.0	354.2	343.2	317.5	277.0	240.3	211.3	-	-	-	-	-	-	-
177.2	56.4	390.2	368.2	348.3	328.5	315.3	286.6	244.7	213.8	187.4	51.4	388.0	372.6	354.9	335.1	324.1	299.8	262.4	227.1	201.7	-	-	-	-	-	-	-
190.3	38.9	371.1	350.5	330.7	313.8	300.6	273.4	233.0	203.6	178.6	34.2	367.4	354.9	337.3	320.4	307.9	285.1	249.1	216.8	193.6	-	-	-	-	-	-	-
203.4	23.0	352.7	335.1	314.8	300.6	286.6	260.9	222.3	194.0	170.1	18.4	348.3	337.3	320.8	306.9	293.7	271.6	237.4	206.9	185.6	-	-	-	-	-	-	-
210.0	15.7	343.9	328.5	307.8	294.7	280.0	255.0	217.5	189.6	166.1	11.2	339.5	328.5	313.1	300.7	287.5	265.4	232.2	202.1	181.5	-	-	-	-	-	-	-
213.3	12.1	339.5	325.2	304.2	291.7	276.7	252.1	215.1	187.4	164.1	-	335.1	325.2	308.6	297.6	284.4	262.4	229.6	199.7	179.5	-	-	-	-	-	-	-
216.5	-	337.3	321.9	299.8	288.8	273.4	249.1	212.7	185.2	162.0	-	330.7	321.9	304.2	293.2	280.0	260.1	227.1	197.3	177.5	-	-	-	-	-	-	-
229.7	-	324.1	310.1	288.1	278.5	263.2	239.0	204.3	178.1	155.4	-	316.0	308.6	292.5	280.7	269.7	248.4	217.7	188.9	169.8	-	-	-	-	-	-	-
242.8	-	312.3	299.8	277.0	269.0	253.5	229.3	196.9	171.2	149.2	-	303.1	296.2	280.7	270.4	258.7	238.1	208.7	181.9	163.5	-	-	-	-	-	-	-
255.9	-	302.0	291.0	266.8	260.1	244.7	220.5	189.6	165.3	143.3	-	293.2	284.4	271.2	260.1	246.9	229.3	200.6	175.3	157.6	-	-	-	-	-	-	-
269.0	-	292.3	283.3	259.4	253.1	235.9	213.8	183.7	159.5	138.9	-	282.2	275.6	260.1	253.5	239.6	222.7	194.0	168.7	151.8	-	-	-	-	-	-	-
282.2	-	285.1	277.0	252.8	246.9	230.8	208.0	177.5	154.3	134.5	-	274.1	267.5	252.1	246.2	232.2	215.0	187.8	163.1	146.6	-	-	-	-	-	-	-
295.3	-	277.8	271.2	246.9	242.5	224.9	202.8	173.1	149.9	130.1	-	266.8	260.1	244.7	240.3	224.9	208.3	181.9	157.6	141.1	-	-	-	-	-	-	-
308.4	-	273.4	266.8	242.5	238.1	219.7	198.4	168.7	146.2	126.4	-	259.4	254.3	238.8	234.4	219.7	203.9	176.7	153.2	137.4	-	-	-	-	-	-	-
321.5	-	264.6	261.0	238.5	234.4	215.3	194.4	164.6	142.6	123.1	-	253.5	248.4	233.0	229.3	215.0	199.2	172.3	149.2	133.7	-	-	-	-	-	-	-
334.6	-	249.1	251.3	233.7	231.5	211.6	190.7	160.9	138.9	120.2	-	246.9	244.7	229.3	224.9	210.5	195.1	168.7	145.5	130.1	-	-	-	-	-	-	-
347.8	-	234.4	235.2	229.3	228.5	210.3	188.5	158.7	136.7	117.9	-	232.2	231.5	224.9	221.2	207.6	192.2	165.0	142.6	126.5	-	-	-	-	-	-	-
360.9	-	220.1	220.5	220.5	220.8	209.1	187.0	156.9	134.5	115.1	-	217.9	217.9	216.8	214.6	203.9	189.2	162.0	139.6	122.7	-	-	-	-	-	-	-
374.0	-	206.1	207.2	207.2	208.3	208.3	186.3	155.4	132.3	112.4	-	203.9	203.9	205.0	205.0	199.5	186.3	159.8	136.7	119.0	-	-	-	-	-	-	-
387.1	-	193.6	194.7	194.7	195.8	196.6	185.6	154.7	130.8	110.5	-	190.7	191.6	191.8	192.7	191.4	180.4	157.6	133.7	116.3	-	-	-	-	-	-	-
400.3	-	181.9	182.6	183.4	184.1	184.8	182.4	153.9	128.6	108.5	-	179.7	180.8	180.8	181.5	181.9	174.8	152.9	131.0	113.1	-	-	-	-	-	-	-
406.8	-	176.4	177.5	177.7	178.6	179.3	179.7	153.0	127.1	107.6	-	174.2	175.3	175.3	175.6	176.4	171.7	150.3	129.6	111.6	-	-	-	-	-	-	-
413.4	-	-	-	172.0	173.1	174.2	174.2	152.1	125.7	106.3	-	168.7	169.8	169.8	169.8	170.9	168.7	147.7	127.9	110.0	-	-	-	-	-	-	-
416.7	-	-	-	169.8	169.8	171.7	171.8	151.2	125.1	105.7	-	166.1	167.2	167.2	167.4	168.5	166.6	146.4	127.3	109.4	-	-	-	-	-	-	-
423.2	-	-	-	-	-	166.7	167.0	149.4	123.7	104.6	-	160.9	162.0	162.0	162.6	163.7	162.6	143.9	126.2	108.1	-	-	-	-	-	-	-
426.5	-	-	-	-	-	164.2	164.6	148.4	122.9	104.1	-	-	-	-	159.5	160.2	161.3	160.6	142.6	125.7	107.5	-	-	-	-	-	-
433.1	-	-	-	-	-	-	159.8	146.6	121.3	103.0	-	-	-	-	154.3	155.4	156.5	156.5	140.0	124.6	106.3	-	-	-	-	-	-
436.4	-	-	-	-	-	-	157.6	145.3	120.9	102.2	-	-	-	-	-	154.0	154.1	138.2	123.8	105.7	-	-	-	-	-	-	-
439.6	-	-	-	-	-	-	-	144.0	120.5	101.7	-	-	-	-	-	151.4	151.8	136.3	123.1	105.1	-	-	-	-	-	-	-
442.9	-	-	-	-	-	-	-	142.7	120.2	101.2	-	-	-	-	-	148.8	149.4	134.5	122.4	104.5	-	-	-	-	-	-	-
452.8	-	-	-	-	-	-	138.9	119.0	99.6	99.6	-	-	-	-	-	-	142.2	129.0	120.2	102.7	-	-	-	-	-	-	-
465.9	-	-	-	-	-	-	-	-	116.1	97.9	-	-	-	-	-	-	-	121.6	113.2	99.8	-	-	-	-	-	-	-
472.4	-	-	-	-	-	-	-	-	114.6	97.0	-	-	-	-	-	-	-	117.9	109.8	98.3	-	-	-	-	-	-	-
479.0	-	-	-	-	-	-	-	-	-	96.3	-	-	-	-	-	-	-	-	106.6	95.7	-	-	-	-	-	-	-
488.8	-	-	-	-	-	-	-	-	-	95.2	-	-	-	-	-	-	-	-	101.9	91.7	-	-	-	-	-	-	-
492.1	-	-	-	-	-	-	-	-	-	94.8	-	-	-	-	-	-	-	-	-	90.4	-	-	-	-	-	-	-
508.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83.8	-	-	-	-	-	-	-

	0 lb	110,250 lb	242,500 lb	374,800 lb	595,300 lb	815,800 lb	992,100 lb	1,191,000 lb
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# Operation

# LSL+LF\_6

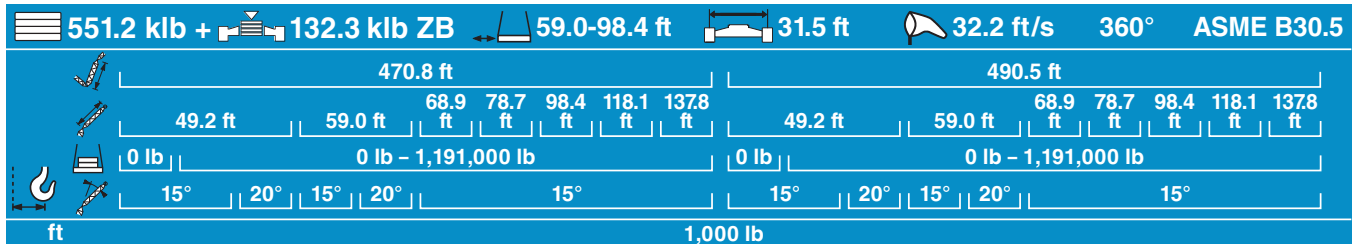


ft		1,000 lb																				
65.6	379.2	551.2	-	-	-	-	-	-	-	-	-	368.2	551.2	-	-	-	-	-	-	-	-	
68.9	359.9	551.2	540.1	537.9	-	-	-	-	-	-	-	350.0	551.2	551.2	551.2	-	-	-	-	-	-	
72.2	340.6	551.2	532.8	529.1	469.6	476.2	-	-	-	-	-	331.8	551.2	551.2	551.2	-	-	-	-	-	-	
75.5	321.3	551.2	525.4	520.3	463.0	468.5	421.1	-	-	-	-	313.6	551.2	551.2	551.2	500.4	506.0	451.9	-	-	-	
78.7	302.0	551.2	518.1	511.5	456.4	460.8	414.5	-	-	-	-	295.4	551.2	551.2	551.2	500.4	504.9	449.7	-	-	-	
82.0	287.2	549.0	510.4	503.2	450.3	453.6	408.4	343.9	-	-	-	280.5	551.2	550.1	547.3	496.6	499.9	447.0	374.8	-	-	
85.3	272.3	546.7	502.7	494.9	444.2	446.4	402.3	339.5	-	-	-	265.7	551.2	549.0	543.4	492.7	494.9	444.2	374.1	-	-	
88.6	257.4	544.5	494.9	486.7	438.2	439.3	396.3	335.1	286.6	-	-	250.8	551.2	547.8	539.6	488.9	490.0	441.5	373.3	315.3	-	
91.9	242.5	542.3	487.2	478.4	432.1	432.1	390.2	330.7	282.2	-	-	235.9	551.2	546.7	535.7	485.0	485.0	438.7	372.6	313.1	-	
95.1	231.2	533.5	480.1	470.7	425.5	424.9	384.2	325.7	278.3	240.3	224.9	551.2	540.1	529.1	480.1	479.5	433.8	368.7	311.4	266.8	-	
98.4	219.9	524.7	472.9	463.0	418.9	417.8	378.1	320.8	274.5	238.1	213.8	551.2	533.5	522.5	475.1	474.0	428.8	364.9	309.7	266.0	-	
111.5	178.6	489.4	444.2	432.1	394.6	390.2	353.8	300.9	260.1	227.1	173.6	535.7	506.0	493.8	453.1	449.7	407.9	349.4	300.9	259.0	-	
124.7	145.1	456.4	418.1	404.2	372.6	366.0	331.4	282.9	246.2	214.6	140.7	503.4	477.7	463.7	429.2	423.3	385.8	332.9	288.8	247.7	-	
137.8	115.7	425.5	394.6	379.2	350.5	343.9	310.9	266.8	231.5	202.8	111.3	469.6	449.7	434.3	405.7	396.8	363.8	315.3	275.6	235.9	-	
150.9	87.4	400.5	372.6	357.1	332.9	324.8	294.7	252.1	219.0	191.8	82.2	438.7	421.8	407.9	385.1	374.8	343.2	297.6	260.9	224.9	-	
164.0	62.2	377.0	352.7	336.6	316.0	306.4	278.5	238.1	207.6	181.5	56.7	410.1	396.1	382.9	365.2	354.2	324.8	281.5	247.7	214.6	-	
177.2	40.3	354.9	335.1	317.5	299.8	288.8	262.4	224.9	197.3	172.0	34.8	383.6	372.6	359.4	346.1	335.1	308.6	266.8	235.9	205.0	-	
190.3	22.7	337.3	318.9	301.3	286.6	275.6	250.6	214.6	187.8	163.9	16.8	362.4	352.0	338.2	328.5	318.9	292.5	255.0	224.9	196.9	-	
193.6	18.3	332.9	314.9	297.3	283.3	272.3	247.7	212.0	185.4	161.9	12.3	357.1	346.9	332.9	324.1	314.9	288.4	252.1	222.1	194.9	-	
196.9	13.9	328.5	310.9	293.2	280.0	269.0	244.7	209.4	183.0	159.8	-	350.5	341.7	328.5	319.7	310.9	284.4	249.1	219.4	192.9	-	
203.4	-	320.4	303.4	285.7	273.4	262.4	238.8	205.0	178.9	156.5	-	341.7	332.9	319.7	311.3	302.5	278.7	243.2	214.4	188.5	-	
216.5	-	304.2	291.0	273.4	262.4	251.3	227.1	196.2	170.9	149.9	-	324.1	315.3	302.0	295.4	286.6	264.6	231.5	205.0	180.8	-	
229.7	-	292.5	279.3	261.6	252.1	241.0	218.3	188.1	164.2	143.1	-	308.2	300.6	288.8	282.2	273.4	254.3	221.9	196.9	173.4	-	
242.8	-	281.5	269.0	251.3	242.5	230.6	209.8	180.8	158.0	137.4	-	295.4	287.9	274.8	270.1	260.9	244.0	213.1	189.2	166.4	-	
255.9	-	271.2	260.1	242.5	235.9	222.7	201.7	174.2	152.1	132.3	-	282.2	275.6	262.4	257.9	249.1	233.7	205.0	181.9	159.8	-	
269.0	-	262.4	252.8	233.7	228.5	214.6	195.1	167.6	146.6	127.9	-	271.9	265.3	253.5	249.1	240.3	224.9	197.7	175.3	154.3	-	
282.2	-	254.3	246.2	226.3	221.9	207.6	188.9	162.0	141.8	123.5	-	262.4	255.7	244.7	240.3	231.5	216.8	191.1	169.0	149.5	-	
295.3	-	246.9	240.3	220.5	216.1	201.7	183.0	157.6	136.7	119.0	-	253.5	246.9	235.9	231.5	222.7	209.4	185.2	163.1	144.4	-	
308.4	-	241.0	235.9	215.4	211.6	197.3	178.6	153.2	133.0	115.4	-	245.8	241.4	228.5	226.2	216.1	202.8	180.0	158.7	140.0	-	
321.5	-	235.9	231.5	210.5	207.6	192.5	174.5	148.8	129.4	112.1	-	238.8	235.2	221.9	219.7	210.2	196.6	175.3	154.3	135.6	-	
334.6	-	231.5	227.1	206.1	203.9	188.5	170.9	145.5	125.7	109.1	-	231.5	229.3	216.1	213.8	205.0	190.7	170.9	149.9	132.3	-	
347.8	-	220.5	219.7	203.2	201.0	185.6	167.9	142.6	123.5	106.5	-	219.0	219.0	211.6	209.4	199.5	186.3	167.2	147.0	128.6	-	
360.9	-	207.8	208.9	200.6	198.0	183.0	165.3	140.0	120.9	104.1	-	205.0	206.1	206.1	203.9	195.6	182.3	163.5	144.0	125.3	-	
374.0	-	194.0	195.1	195.1	195.1	180.8	163.1	137.8	117.9	101.9	-	191.8	192.9	192.9	194.0	191.8	178.6	159.8	141.1	122.4	-	
387.1	-	181.5	182.6	182.6	183.4	177.7	160.7	135.6	116.2	99.9	-	179.3	180.4	180.4	181.5	181.5	176.4	156.9	138.9	120.2	-	
400.3	-	169.8	170.9	170.9	172.0	171.6	159.1	134.8	113.9	98.4	-	167.6	168.7	168.7	169.4	170.5	170.1	154.3	136.0	117.2	-	
413.4	-	158.7	159.8	159.8	160.9	162.0	157.6	133.4	112.4	97.0	-	156.5	157.6	157.6	157.6	158.7	159.8	152.1	132.3	113.5	-	
426.5	-	149.2	149.5	150.3	150.6	151.8	151.0	132.6	110.8	96.1	-	146.2	147.3	147.3	148.1	149.2	149.5	147.7	129.3	111.2	-	
433.1	-	144.4	144.4	145.5	145.5	146.6	147.7	132.3	110.0	95.7	-	141.1	142.2	142.2	143.3	144.4	144.4	145.5	127.9	110.0	-	
439.6	-	-	-	140.4	141.1	142.2	142.9	130.4	109.7	95.2	-	136.7	137.8	137.8	138.5	139.6	140.0	142.2	126.0	108.8	-	
442.9	-	-	-	137.8	138.9	140.0	140.5	129.5	109.6	94.9	-	134.5	135.6	135.6	136.1	137.2	137.8	140.5	125.1	108.1	-	
452.8	-	-	-	-	-	133.4	133.4	126.8	109.1	94.1	-	127.9	129.0	129.0	129.0	130.1	131.2	135.6	122.4	106.3	-	
462.6	-	-	-	-	-	-	127.9	121.8	107.5	93.7	-	-	-	122.4	123.5	124.1	125.1	129.0	118.5	104.7	-	
465.9	-	-	-	-	-	-	-	120.2	107.0	93.5	-	-	-	-	-	122.1	123.1	126.8	117.2	104.2	-	
469.2	-	-	-	-	-	-	-	118.5	106.5	93.4	-	-	-	-	-	120.2	121.1	124.6	115.9	103.7	-	
479.0	-	-	-	-	-	-	-	113.9	102.3	92.2	-	-	-	-	-	-	114.6	118.7	111.7	101.5	-	
482.3	-	-	-	-	-	-	-	112.4	100.9	91.3	-	-	-	-	-	-	-	116.8	110.2	100.6	-	
492.1	-	-	-	-	-	-	-	-	96.6	88.6	-	-	-	-	-	-	-	-	111.3	106.0	98.1	-
498.7	-	-	-	-	-	-	-	-	93.6	86.3	-	-	-	-	-	-	-	-	107.4	103.4	95.8	-
502.0	-	-	-	-	-	-	-	-	92.2	85.1	-	-	-	-	-	-	-	-	102.1	94.6	-	-
518.4	-	-	-	-	-	-	-	-	92.2	79.2	-	-	-	-	-	-	-	-	95.5	88.6	-	-
521.7	-	-	-	-	-	-	-	-	92.2	78.0	-	-	-	-	-	-	-	-	-	87.4	-	-
531.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83.8	-	-
538.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	81.4	-	-

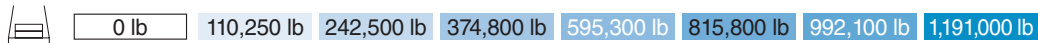


# Operation

# LSL+LF\_6



ft		1,000 lb																		
65.6	354.9	551.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
68.9	336.8	551.2	-	-	-	-	-	-	-	-	326.3	551.2	-	-	-	-	-	-	-	-
72.2	318.6	551.2	515.9	520.3	-	-	-	-	-	-	308.6	551.2	524.7	524.7	-	-	-	-	-	-
75.5	300.4	551.2	510.4	512.6	449.7	456.4	-	-	-	-	291.0	551.2	519.2	518.1	465.2	469.6	-	-	-	-
78.7	282.2	551.2	504.9	504.9	445.3	449.7	412.3	-	-	-	273.4	551.2	513.7	511.5	460.8	463.0	425.5	-	-	-
85.3	253.5	541.2	491.6	489.4	433.2	436.5	400.1	330.7	-	-	245.8	535.7	500.4	497.1	449.7	450.8	414.5	352.7	-	-
91.9	224.9	531.3	478.4	474.0	421.1	423.3	388.0	324.1	275.6	-	218.3	520.3	487.2	482.8	438.7	438.7	403.4	343.9	297.6	-
98.4	202.3	514.8	465.2	459.7	410.1	410.1	377.0	314.2	270.1	233.7	191.2	503.8	475.1	468.5	427.7	426.6	393.5	335.1	291.0	253.5
111.5	161.5	481.7	438.7	431.0	388.0	384.7	354.9	295.4	256.8	222.7	156.5	469.6	448.6	438.7	406.8	403.4	372.6	317.5	277.8	243.2
124.7	128.2	450.5	413.7	404.2	366.7	361.6	333.6	279.3	242.5	211.3	123.0	436.5	419.6	409.3	385.8	380.7	352.0	300.6	264.6	232.2
137.8	98.1	421.1	390.2	379.2	346.1	339.5	313.1	264.6	229.3	199.5	91.3	405.7	390.2	381.4	363.8	357.1	332.9	284.4	251.3	220.5
150.9	69.3	396.1	368.2	357.1	328.5	321.9	296.9	249.9	217.5	190.0	64.2	377.7	365.2	356.4	341.7	335.1	315.3	269.7	238.1	210.2
164.0	44.3	373.3	349.1	337.3	312.3	305.0	281.5	236.6	206.5	180.4	39.7	352.0	341.0	332.9	321.1	314.5	297.6	255.7	226.0	199.9
177.2	23.1	352.7	332.9	319.7	297.6	288.8	266.8	224.9	196.2	170.9	17.6	328.5	317.5	310.9	302.0	295.4	280.0	242.5	215.0	189.6
180.4	18.5	348.3	329.2	315.3	294.3	284.9	263.2	222.1	193.8	168.8	12.8	321.9	313.1	306.4	296.9	290.3	275.6	239.9	212.4	187.6
183.7	13.9	343.9	325.5	310.9	291.0	281.1	259.7	219.4	191.4	166.8	-	317.0	308.6	302.0	291.7	285.1	271.2	237.2	209.8	185.6
190.3	-	334.0	318.2	302.8	284.4	273.4	252.6	213.8	186.7	162.8	-	307.3	298.7	292.1	282.9	276.3	263.1	231.9	204.7	181.5
203.4	-	315.3	304.2	288.1	271.9	260.9	241.8	203.9	177.9	155.4	-	288.8	280.9	274.1	267.5	260.9	248.4	221.9	195.5	173.3
216.5	-	297.6	291.0	273.4	260.1	249.1	231.5	195.1	170.9	148.8	-	271.2	266.8	257.9	251.3	244.7	233.7	211.6	187.4	165.3
229.7	-	282.9	277.3	263.2	249.9	238.8	221.2	187.0	163.5	142.9	-	256.5	253.5	244.7	239.0	232.4	220.5	202.1	179.3	158.7
242.8	-	269.7	264.6	252.8	240.3	228.9	211.9	179.3	157.1	136.9	-	243.2	238.8	232.2	226.0	219.7	209.8	191.6	172.0	152.1
255.9	-	257.9	251.3	242.5	231.5	219.4	203.9	173.1	151.0	131.2	-	231.5	227.1	220.5	216.1	209.4	199.5	181.9	165.3	146.6
269.0	-	247.7	242.5	233.7	224.9	212.3	196.6	166.4	145.9	126.8	-	221.2	217.5	210.2	206.1	199.9	190.7	173.8	158.7	140.7
282.2	-	238.1	233.0	224.9	218.3	205.4	190.0	160.6	140.7	122.4	-	211.6	207.6	201.0	197.7	191.1	182.6	166.1	152.5	135.6
295.3	-	229.3	224.9	216.1	211.6	199.5	184.1	155.4	135.6	117.9	-	202.8	199.5	192.9	189.6	183.0	175.3	158.7	146.6	131.2
308.4	-	221.9	217.5	208.7	205.0	194.4	179.0	151.0	132.3	114.4	-	196.2	192.9	186.3	183.0	176.4	168.7	152.1	140.0	126.8
321.5	-	215.0	211.3	202.4	198.8	189.6	174.5	147.0	128.2	110.9	-	189.6	186.7	180.0	176.9	170.1	162.4	146.6	134.1	122.4
334.6	-	208.3	206.1	197.3	192.9	185.2	170.9	143.3	124.6	107.8	-	184.1	180.8	174.2	170.9	164.2	156.5	141.1	129.0	117.9
347.8	-	203.4	200.6	191.8	188.5	180.6	167.2	140.4	121.6	105.0	-	178.6	176.4	169.0	166.4	159.8	152.1	136.7	124.6	114.3
360.9	-	194.4	193.3	187.4	184.5	176.7	163.9	137.4	119.0	102.4	-	173.8	172.0	164.6	162.4	155.4	148.1	132.6	121.3	110.1
374.0	-	181.9	183.0	183.0	180.8	173.1	160.9	134.5	116.8	100.1	-	168.7	167.6	160.9	158.7	151.0	144.4	129.0	116.8	106.0
387.1	-	169.4	170.5	170.5	170.5	168.7	158.0	132.3	114.6	98.2	-	163.5	163.9	158.0	155.8	148.1	140.7	126.0	113.9	103.0
400.3	-	157.6	158.7	158.7	159.8	160.9	154.7	130.4	112.8	96.3	-	153.2	154.7	152.5	151.4	145.1	136.3	123.1	111.2	100.2
413.4	-	146.6	147.7	147.7	148.8	149.9	151.0	129.0	111.3	94.6	-	137.8	140.0	144.4	145.5	142.2	133.4	120.2	108.7	97.7
426.5	-	137.1	137.4	137.4	138.5	139.6	140.7	126.8	109.9	93.1	-	121.6	124.6	131.2	133.0	135.6	129.7	117.9	106.3	95.2
439.6	-	126.8	127.9	127.9	129.0	130.1	130.8	123.8	108.0	91.7	-	107.1	110.2	118.2	120.2	126.8	125.7	115.1	104.3	93.3
452.8	-	117.9	119.0	119.0	120.2	121.3	121.3	120.2	105.6	90.4	-	95.0	96.8	106.0	108.7	117.9	119.0	111.3	102.5	91.5
462.6	-	112.4	113.0	113.6	114.9	115.2	117.7	103.5	89.2	87.6	88.8	87.6	88.8	97.6	100.1	111.8	112.7	107.7	98.9	90.4
465.9	-	-	111.0	111.5	112.7	113.2	116.3	102.7	88.8	85.2	86.5	85.2	86.5	94.7	97.2	109.7	110.5	106.5	97.7	90.0
472.4	-	-	106.9	107.1	108.5	109.1	113.5	101.4	88.2	80.2	81.8	80.2	81.8	89.1	91.5	105.6	106.3	104.1	95.2	89.3
479.0	-	-	-	-	104.6	105.2	109.7	99.8	87.2	76.1	77.2	76.1	77.2	83.9	86.0	99.4	102.4	101.6	92.7	86.9
482.3	-	-	-	-	102.7	103.2	107.8	99.0	86.6	-	-	-	-	81.3	83.3	96.2	100.5	100.3	91.4	85.8
488.8	-	-	-	-	-	99.2	104.0	97.4	85.6	-	-	-	-	76.1	77.8	90.0	96.7	97.8	88.8	83.4
492.1	-	-	-	-	-	97.2	102.1	96.6	85.1	-	-	-	-	-	-	86.9	94.8	96.6	87.5	82.2
498.7	-	-	-	-	-	-	98.1	93.8	83.9	-	-	-	-	-	-	79.8	89.0	93.4	85.0	79.8
508.5	-	-	-	-	-	-	92.2	89.8	82.2	-	-	-	-	-	-	-	80.2	88.7	81.3	76.2
511.8	-	-	-	-	-	-	90.2	88.4	81.6	-	-	-	-	-	-	-	-	87.1	80.0	75.0
518.4	-	-	-	-	-	-	-	85.8	79.4	-	-	-	-	-	-	-	-	83.8	77.6	72.6
528.2	-	-	-	-	-	-	-	81.8	76.2	-	-	-	-	-	-	-	-	78.9	74.0	69.4
531.5	-	-	-	-	-	-	-	-	75.2	-	-	-	-	-	-	-	-	-	72.8	68.3
544.6	-	-	-	-	-	-	-	-	70.8	-	-	-	-	-	-	-	-	-	67.8	64.1
547.9	-	-	-	-	-	-	-	-	69.7	-	-	-	-	-	-	-	-	-	66.6	63.0
557.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59.9
564.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57.8



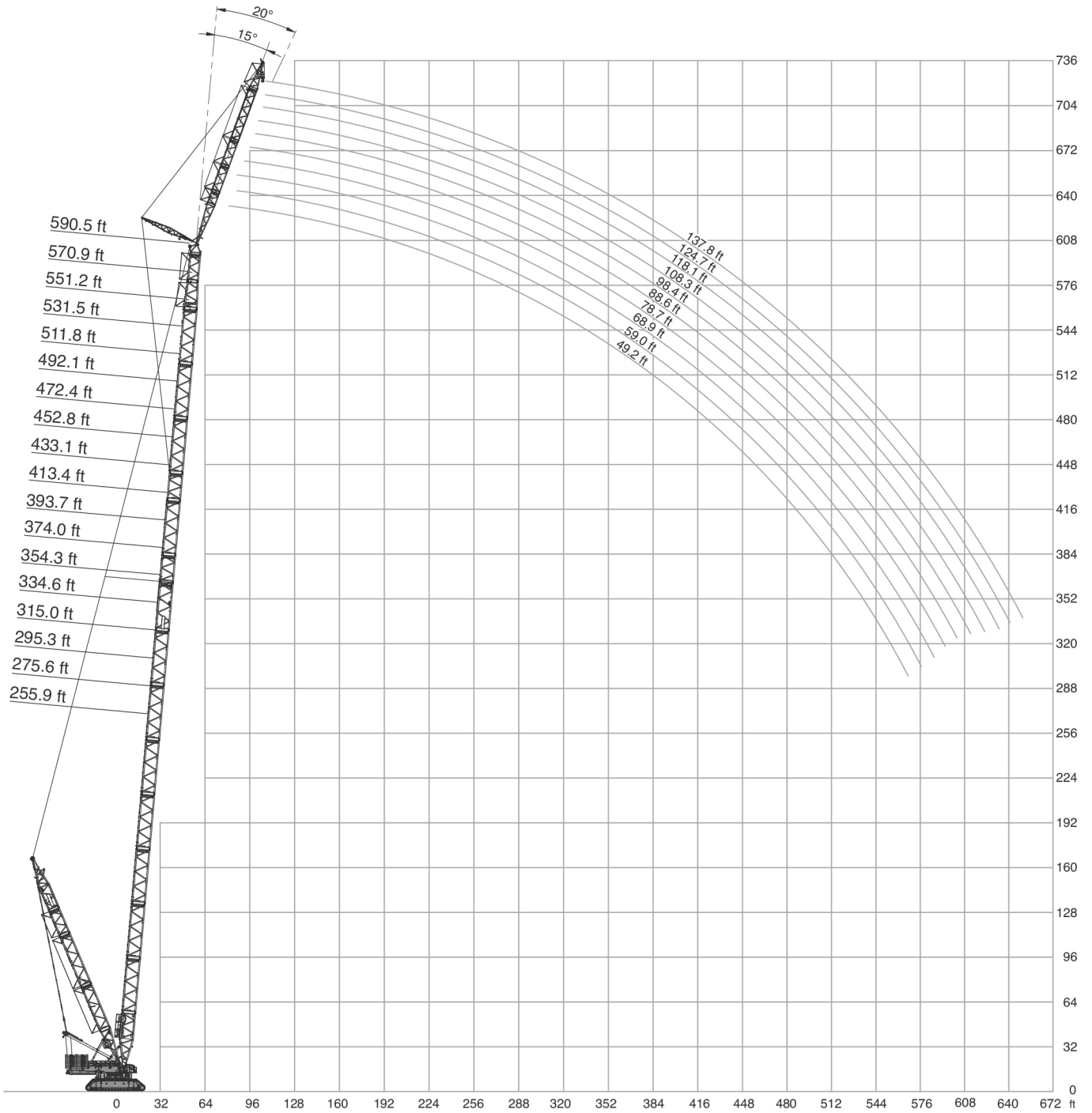




# Operation

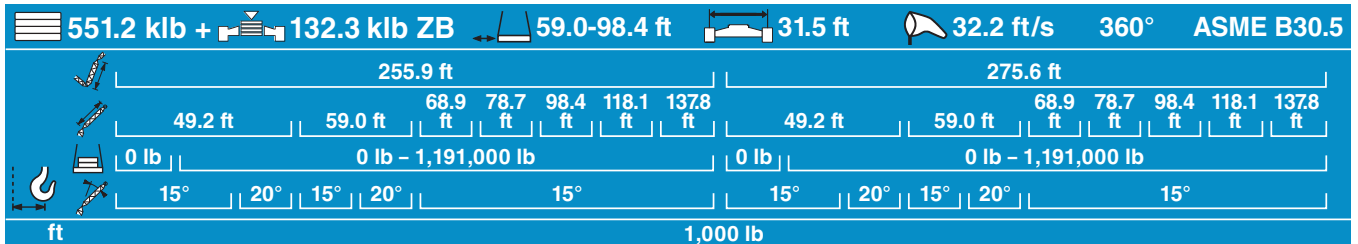
# LSL+LF\_6

551.2 klb + 132.3 klb ZB															59.0-98.4 ft					31.5 ft					32.2 ft/s					360° ASME B30.5				
575.8 ft															595.5 ft																			
49.2 ft			59.0 ft			68.9 ft		78.7 ft		98.4 ft		118.1 ft		137.8 ft			49.2 ft			59.0 ft			68.9 ft		78.7 ft		98.4 ft		118.1 ft		137.8 ft			
0 lb															0 lb - 1,191,000 lb																			
15°			20°			15°		20°		15°		20°		15°			20°			15°		20°		15°		20°		15°		20°				
ft															1,000 lb																			
75.5	233.7	414.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
78.7	219.4	407.9	392.4	383.6	-	-	-	-	-	-	-	-	-	212.7	407.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
82.0	206.7	400.7	385.8	377.5	-	-	354.9	-	-	-	-	-	-	200.3	402.3	388.0	377.0	-	-	-	-	-	-	-	-	-	-	-	-	-				
85.3	194.0	393.5	379.2	371.5	354.9	349.8	330.7	-	-	-	-	-	-	187.9	396.8	382.9	372.6	357.1	352.7	-	-	-	-	-	-	-	-	-	-	-				
88.6	181.3	386.4	372.6	365.4	349.4	344.7	325.2	-	-	-	-	-	-	175.5	391.3	377.7	368.2	352.7	347.2	326.3	-	-	-	-	-	-	-	-	-	-				
91.9	168.7	379.2	366.0	359.4	343.9	339.5	319.7	288.8	-	-	-	-	-	163.1	385.8	372.6	363.8	348.3	341.7	321.9	-	-	-	-	-	-	-	-	-	-				
95.1	158.7	372.0	359.4	352.7	337.9	333.4	314.7	284.9	-	-	-	-	-	152.7	379.7	367.1	358.3	343.4	337.3	318.0	286.6	-	-	-	-	-	-	-	-	-				
98.4	148.8	364.9	352.7	346.1	331.8	327.4	309.7	281.1	-	-	-	-	-	142.2	373.7	361.6	352.7	338.4	332.9	314.2	282.9	-	-	-	-	-	-	-	-	-				
101.7	138.9	357.7	346.1	339.5	325.7	321.3	304.8	277.2	240.3	-	-	-	-	131.7	367.6	356.0	347.2	333.4	328.5	310.3	279.3	-	-	-	-	-	-	-	-	-				
108.3	118.8	343.9	333.4	326.8	314.2	309.7	294.9	269.0	235.0	210.5	110.8	355.5	345.0	336.2	323.5	319.1	302.0	272.3	-	-	-	-	-	-	-	-	-	-	-	-				
111.5	108.7	337.3	327.4	320.8	308.6	304.2	289.9	264.6	232.4	208.3	100.4	349.4	339.5	330.7	318.6	314.2	297.6	269.0	-	-	-	-	-	-	-	-	-	-	-	-				
124.7	70.3	311.6	303.5	296.9	286.6	282.9	269.7	247.7	221.2	199.2	61.9	325.5	317.5	308.6	299.1	294.7	280.0	255.0	-	-	-	-	-	-	-	-	-	-	-	-				
137.8	34.0	286.6	280.0	273.4	264.6	262.4	249.1	231.5	209.4	189.6	26.7	302.0	295.4	286.6	280.0	275.6	262.4	240.3	-	-	-	-	-	-	-	-	-	-	-	-				
144.4	19.5	274.8	269.0	263.1	254.6	252.4	240.3	223.1	203.2	184.7	12.1	291.0	283.7	277.8	269.7	265.3	253.5	233.7	-	-	-	-	-	-	-	-	-	-	-	-				
147.6	12.3	269.0	263.5	257.9	249.7	247.5	235.9	218.9	200.1	182.3	-	285.5	277.8	272.3	264.6	260.1	249.1	230.4	-	-	-	-	-	-	-	-	-	-	-	-				
150.9	-	263.8	257.9	252.8	244.7	242.5	231.5	214.7	196.9	179.9	-	280.0	272.6	266.8	260.1	255.7	244.7	227.1	-	-	-	-	-	-	-	-	-	-	-	-				
164.0	-	244.0	239.6	233.3	227.4	223.4	214.6	199.9	184.1	169.8	-	259.4	253.5	246.9	242.5	238.1	227.4	211.3	-	-	-	-	-	-	-	-	-	-	-	-				
177.2	-	224.9	220.5	215.0	210.5	207.2	198.4	185.2	170.9	158.7	-	240.3	235.9	229.3	224.9	220.5	210.5	197.3	-	-	-	-	-	-	-	-	-	-	-	-				
190.3	-	208.0	205.0	199.5	195.6	192.2	183.4	172.0	159.1	148.2	-	221.0	218.3	212.2	208.3	204.7	196.2	184.1	-	-	-	-	-	-	-	-	-	-	-	-				
203.4	-	193.3	190.3	184.8	181.9	177.8	170.5	159.8	148.1	137.8	-	205.0	202.1	196.6	193.6	190.3	181.9	171.6	-	-	-	-	-	-	-	-	-	-	-	-				
216.5	-	178.6	176.4	170.9	168.7	165.3	158.7	148.8	137.8	129.0	-	189.6	187.4	181.9	179.7	176.4	168.7	159.8	-	-	-	-	-	-	-	-	-	-	-	-				
229.7	-	166.1	163.9	159.1	156.9	153.6	147.7	138.5	129.0	120.2	-	176.4	174.2	169.5	167.2	163.9	157.6	148.8	-	-	-	-	-	-	-	-	-	-	-	-				
242.8	-	154.7	152.8	147.5	145.5	142.2	136.7	129.0	120.2	111.9	-	164.2	163.1	157.6	155.8	152.5	146.4	138.7	-	-	-	-	-	-	-	-	-	-	-	-				
255.9	-	144.4	142.2	137.8	136.7	133.4	127.9	120.2	112.4	104.3	-	153.2	152.1	146.6	145.5	142.2	136.7	129.0	-	-	-	-	-	-	-	-	-	-	-	-				
269.0	-	134.8	133.4	129.0	127.9	124.6	119.0	112.5	104.8	97.4	-	143.7	142.6	137.8	136.0	132.6	127.9	120.9	-	-	-	-	-	-	-	-	-	-	-	-				
282.2	-	126.8	125.3	120.9	119.5	116.6	111.2	105.3	97.7	90.8	-	134.8	133.7	129.0	127.9	124.2	119.6	113.1	-	-	-	-	-	-	-	-	-	-	-	-				
295.3	-	119.0	117.9	113.5	112.4	109.1	104.3	98.5	91.1	84.4	-	126.8	125.7	121.3	120.2	116.8	111.3	105.6	-	-	-	-	-	-	-	-	-	-	-	-				
308.4	-	112.0	111.2	106.8	105.8	102.7	98.0	92.4	85.4	79.0	-	119.9	119.0	114.1	113.0	109.8	105.2	99.4	-	-	-	-	-	-	-	-	-	-	-	-				
321.5	-	105.8	105.0	100.6	99.7	96.7	92.1	86.9	80.1	74.0	-	113.1	112.4	108.2	106.9	103.6	98.8	93.6	-	-	-	-	-	-	-	-	-	-	-	-				
334.6	-	100.1	99.4	95.0	94.1	91.3	86.6	81.6	75.0	69.4	-	106.7	105.8	101.9	101.0	97.9	93.0	88.2	-	-	-	-	-	-	-	-	-	-	-	-				
347.8	-	95.2	94.6	90.2	89.4	86.6	81.9	77.0	70.5	65.3	-	101.4	100.7	96.3	95.5	92.5	88.0	83.1	-	-	-	-	-	-	-	-	-	-	-	-				
360.9	-	90.7	90.1	85.7	85.0	82.2	77.6	72.8	66.4	61.4	-	96.6	95.9	91.6	90.8	87.8	83.3	78.6	-	-	-	-	-	-	-	-	-	-	-	-				
374.0	-	86.4	86.0	81.6	80.9	78.0	73.6	69.0	62.6	57.8	-	92.2	91.5	87.3	86.4	83.6	78.9	74.3	-	-	-	-	-	-	-	-	-	-	-	-				
387.1	-	83.1	82.5	78.2	77.5	74.5	70.1	65.4	59.3	54.7	-	88.0	87.5	83.1	82.5	79.9	75.4	70.6	-	-	-	-	-	-	-	-	-	-	-	-				
400.3	-	79.6	79.0	74.9	74.3	71.3	66.9	62.2	55.9	51.7	-	84.4	83.8	79.5	78.9	76.1	71.6	67.2	-	-	-	-	-	-	-	-	-	-	-	-				
413.4	-	76.5	76.1	71.7	71.2	68.3	63.9	59.3	53.1	48.7	-	80.9	80.5	76.3	75.8	73.0	68.3	64.2	-	-	-	-	-	-	-	-	-	-	-	-				
426.5	-	74.0	73.6	69.2	68.7	65.7	61.4	56.8	50.5	46.2	-	78.1	77.7	73.3	72.8	70.0	65.6	60.9	-	-	-	-	-	-	-	-	-	-	-	-				
439.6	-	71.7	71.3	66.8	66.4	63.3	59.1	54.3	48.1	43.9	-	75.5	75.1	70.7	70.2	67.3	62.9	58.3	-	-	-	-	-	-	-	-	-	-	-	-				
452.8	-	69.7	69.4	64.8	64.4	61.3	56.9	52.0	45.9	41.7	-	73.2	72.8	68.3	67.9	64.8	60.6	56.0	-	-	-	-	-	-	-	-	-	-	-	-				
465.9	-	66.0	66.1	62.5	62.3	59.7	55.1	50.2	44.2	39.8	-	70.3	70.1	66.6	66.1	62.9	58.7	53.9	-	-	-	-	-	-	-	-	-	-	-	-				
479.0	-	62.0	62.2	59.4	59.5	57.3	53.2	48.4	42.7	37.8	-	64.7	64.7	62.9	62.6	60.9	57.0	52.0	-	-	-	-	-	-	-	-	-	-	-	-				
492.1	-	57.8	58.0	55.6	55.8	54.2	51.1	47.0	41.2	35.7	-	64.4	64.4	62.9	62.6	60.9	57.3	50.3	-	-	-	-	-	-	-	-	-	-	-	-				
518.4	-	43.4	43.4	45.0	45.0	46.7	45.3	42.3	37.8	32.2	-	40.9	40.9	42.1	42.1	44.2	44.9	45.9	-	-	-	-	-	-	-	-	-	-	-	-				
531.5	-	35.3	35.3	36.8	36.8	39.7	40.8	39.7	35.9	30.9	-	33.3	33.3	34.6	34.6	36.8	37.7	40.6	-	-	-	-	-	-	-	-	-	-	-	-				
544.6	-	27.0	27.0	29.0	29.0	31.9	33.4	36.9	33.7	29.3	-	25.8	25.8	27.3	27.3	29.6	30.8	35.0	-	-	-	-	-	-	-	-	-	-	-	-				
554.5	-	20.9	20.9	23.1	23.1	26.1	27.9	33.9	32.1	28.0	-	20.2	20.2	21.8	21.8	24.3	25.6	30.8	-	-	-	-	-	-	-	-	-	-	-	-				
557.7	-	-	-	21.2	21.2	24.2	26.0	32.3	31.5	27.6	-	18.3	18.3	19.9	19.9	22.5	23.9	29.3	-	-	-	-	-	-	-	-	-	-	-	-				
564.3	-	-	-	17.2	17.2	20.4	22.3	29.0	30.4	26.7	-	14.5	14.5	16.2	16.2	19.0	20.4	26.5	-	-	-	-	-	-	-	-	-	-	-	-				
567.6	-	-	-	-	-	18.4	20.4	27.4	29.9	26.2	-	12.6	12.6	14.4	14.4	17.2	18.7	25.0	-	-	-	-	-	-	-	-	-	-	-	-				
570.9	-	-	-	-	-	16.5	18.5	25.8	29.3	25.8	-	-	-	12.6	12.6	15.4	17.0	23.6	-	-	-</													



# Operation

LSL+LF\_7



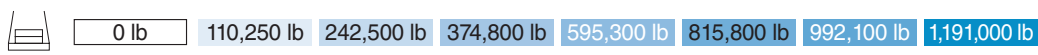
ft	1,000 lb																		
49.2	551.2	551.2	-	-	-	-	-	-	-	-	-	551.2	551.2	-	-	-	-	-	-
52.5	551.2	551.2	551.2	551.2	-	-	-	-	-	-	-	551.2	551.2	551.2	551.2	-	-	-	-
55.8	551.2	551.2	551.2	551.2	551.2	551.2	-	-	-	-	-	551.2	551.2	551.2	551.2	551.2	-	-	-
59.1	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	-	-	-	551.2	551.2	551.2	551.2	551.2	551.2	-	-
65.6	509.3	551.2	551.2	551.2	551.2	551.2	551.2	551.2	463.0	-	-	493.8	551.2	551.2	551.2	551.2	551.2	551.2	465.2
72.2	463.0	551.2	551.2	551.2	551.2	551.2	551.2	530.2	442.0	372.6	-	448.6	551.2	551.2	551.2	551.2	551.2	551.2	533.5
78.7	416.7	551.2	551.2	551.2	551.2	551.2	551.2	509.3	421.1	357.1	306.4	403.4	551.2	551.2	551.2	551.2	551.2	551.2	515.9
85.3	382.5	551.2	551.2	551.2	551.2	551.2	551.2	531.3	539.0	488.3	403.4	342.8	296.5	369.3	551.2	551.2	551.2	551.2	535.7
91.9	348.3	551.2	551.2	551.2	551.2	511.5	526.9	467.4	385.8	328.5	286.6	335.1	551.2	551.2	551.2	551.2	520.3	537.9	474.0
98.4	320.8	551.2	551.2	551.2	551.2	494.9	507.1	449.7	371.5	315.3	275.6	309.7	551.2	551.2	551.2	551.2	503.8	518.1	457.5
111.5	269.0	551.2	541.2	536.8	464.1	470.7	416.7	343.9	291.0	255.7	261.2	551.2	546.7	543.4	472.9	481.7	425.5	350.5	296.5
124.7	226.7	544.5	517.4	506.3	437.3	439.5	388.7	320.4	271.2	238.8	220.5	550.4	529.1	519.6	446.8	451.2	397.6	327.0	277.8
137.8	190.7	531.3	489.4	474.0	412.3	410.1	363.8	299.8	253.5	222.7	185.2	549.0	502.7	487.2	423.3	423.3	372.6	306.4	260.1
150.9	165.0	500.4	465.9	447.5	391.7	388.0	343.2	282.2	238.8	208.7	159.5	518.1	477.7	460.8	402.7	399.8	352.0	288.8	244.0
164.0	142.2	471.8	443.9	422.6	373.3	366.7	323.3	266.0	225.2	196.2	136.3	489.4	455.6	436.5	383.6	377.7	332.9	272.6	230.0
177.2	122.4	445.3	423.3	399.0	357.1	346.1	304.2	251.3	212.7	185.2	115.7	463.0	436.5	414.5	366.0	357.1	315.3	257.9	218.3
190.3	106.6	424.8	407.1	379.9	342.5	328.5	289.5	238.1	202.5	175.6	99.9	440.9	418.9	393.9	351.3	339.5	299.1	246.2	208.0
203.4	92.4	404.9	391.7	361.6	329.2	312.3	275.6	226.0	192.5	166.8	85.5	420.3	402.7	374.8	338.0	323.3	284.4	234.4	198.0
216.5	79.6	385.8	377.0	343.9	317.5	297.6	262.4	215.0	183.0	158.7	72.8	401.2	388.0	357.1	326.3	308.6	271.2	222.7	188.5
229.7	69.3	371.1	365.2	330.7	307.2	285.9	250.6	205.4	175.6	152.1	62.3	386.5	376.3	343.9	314.5	296.9	259.4	213.1	181.1
242.8	59.9	357.9	354.9	318.2	297.6	274.8	240.3	196.6	168.3	145.9	52.8	371.8	365.2	330.7	304.2	285.1	249.1	203.9	173.8
255.9	51.4	346.1	346.1	306.4	288.8	264.6	231.5	188.5	160.9	140.0	44.3	357.1	354.9	317.5	295.4	273.4	240.3	195.1	166.4
269.0	44.5	335.8	335.8	297.6	282.9	255.7	224.1	181.9	154.3	134.1	37.1	346.9	346.1	307.2	288.1	264.6	231.5	188.5	159.8
275.6	41.0	330.7	330.7	293.2	280.0	251.3	220.5	178.6	151.0	131.2	33.5	341.7	341.7	302.0	284.4	260.1	227.1	185.2	156.5
282.2	-	-	-	288.8	277.0	248.4	217.2	175.6	148.4	128.6	30.6	337.3	337.3	298.4	282.2	256.5	223.8	181.9	154.0
285.4	-	-	-	286.6	275.6	246.9	215.5	174.2	147.2	127.3	29.1	335.1	335.1	296.5	281.1	254.6	222.1	180.2	152.7
295.3	-	-	-	-	-	242.5	210.5	169.8	143.3	123.5	24.7	328.5	328.5	291.0	277.8	249.1	217.2	175.3	148.8
305.1	-	-	-	-	-	-	207.2	166.4	140.0	119.0	-	-	-	286.6	273.4	245.2	213.3	172.0	145.0
308.4	-	-	-	-	-	-	-	165.3	138.9	117.6	-	-	-	-	-	243.8	212.0	170.9	143.7
311.7	-	-	-	-	-	-	-	164.2	137.8	116.1	-	-	-	-	-	242.5	210.7	169.8	142.4
321.5	-	-	-	-	-	-	-	161.7	134.8	112.0	-	-	-	-	-	-	207.2	166.4	139.3
324.8	-	-	-	-	-	-	-	160.9	133.9	110.7	-	-	-	-	-	-	-	165.3	138.3
334.6	-	-	-	-	-	-	-	-	131.2	106.7	-	-	-	-	-	-	-	162.0	135.6
341.2	-	-	-	-	-	-	-	-	129.7	104.6	-	-	-	-	-	-	-	159.8	133.9
344.5	-	-	-	-	-	-	-	-	129.0	103.6	-	-	-	-	-	-	-	-	133.1
347.8	-	-	-	-	-	-	-	-	-	102.6	-	-	-	-	-	-	-	-	132.3
360.9	-	-	-	-	-	-	-	-	-	99.0	-	-	-	-	-	-	-	-	129.0
374.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99.2
380.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	97.7



# Operation

LSL+LF\_7






551.2 klb +  132.3 klb ZB  59.0-98.4 ft  31.5 ft  32.2 ft/s 360° ASME B30.5																											
295.3 ft										315.0 ft																	
49.2 ft		59.0 ft		68.9 ft		78.7 ft		98.4 ft		118.1 ft		137.8 ft		49.2 ft		59.0 ft		68.9 ft		78.7 ft		98.4 ft		118.1 ft		137.8 ft	
0 lb										0 lb - 1,191,000 lb																	
15°		20°		15°		20°		15°		20°		15°		20°		15°		20°		15°		20°		15°		20°	
ft																											
										1,000 lb																	
52.5	551.2	551.2	-	-	-	-	-	-	-	-	-	-	551.2	551.2	-	-	-	-	-	-	-	-	-	-	-	-	-
55.8	542.3	551.2	551.2	551.2	551.2	-	-	-	-	-	-	-	533.5	551.2	551.2	551.2	-	-	-	-	-	-	-	-	-	-	-
59.1	533.5	551.2	551.2	551.2	551.2	551.2	551.2	-	-	-	-	-	515.9	551.2	551.2	551.2	551.2	-	-	-	-	551.2	-	-	-	-	-
62.3	504.9	551.2	551.2	551.2	551.2	551.2	551.2	551.2	-	-	-	-	488.3	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	-	-
65.6	476.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	-	-	-	-	460.8	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	-	-
68.9	454.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	543.4	456.4	-	-	439.3	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	545.1	458.6	-
72.2	432.1	551.2	551.2	551.2	551.2	551.2	551.2	551.2	535.7	447.5	-	-	417.8	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	539.0	449.7	-
75.5	410.1	551.2	551.2	551.2	551.2	551.2	551.2	551.2	528.0	438.7	-	-	396.3	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	533.0	440.9	370.4
78.7	388.0	551.2	551.2	551.2	551.2	551.2	551.2	551.2	520.3	429.9	361.6	-	374.8	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	526.9	432.1	363.8
82.0	372.0	551.2	551.2	551.2	551.2	545.6	549.5	510.9	421.6	354.9	299.8	358.8	551.2	551.2	551.2	551.2	547.3	550.6	517.0	424.4	357.1	297.6	-	-	-	-	-
85.3	356.0	551.2	551.2	551.2	551.2	540.1	547.8	501.6	413.4	348.3	296.9	342.8	551.2	551.2	551.2	551.2	543.4	550.1	507.1	416.7	350.5	295.4	-	-	-	-	-
91.9	324.1	551.2	551.2	551.2	551.2	529.1	544.5	482.8	396.8	335.1	291.0	310.9	551.2	551.2	551.2	551.2	535.7	549.0	487.2	401.2	337.3	291.0	-	-	-	-	-
98.4	298.7	551.2	551.2	551.2	551.2	512.6	525.8	465.2	382.5	323.0	281.1	286.6	551.2	551.2	551.2	551.2	520.3	533.5	471.8	386.9	326.3	282.2	-	-	-	-	-
111.5	253.5	551.2	551.2	549.0	481.7	490.5	433.2	356.0	300.9	262.4	242.5	551.2	551.2	551.2	551.2	490.5	501.6	442.0	361.6	304.2	264.6	-	-	-	-	-	
124.7	215.7	551.2	538.7	531.3	455.6	460.0	406.4	333.6	282.2	245.4	206.9	551.2	542.3	538.7	464.4	471.1	415.2	340.2	285.1	248.4	-	-	-	-	-	-	-
137.8	179.7	551.2	513.7	500.4	432.1	432.1	381.4	313.1	264.6	229.3	175.3	551.2	524.7	513.7	440.9	443.1	390.2	319.7	269.0	233.7	-	-	-	-	-	-	-
150.9	154.0	529.1	490.2	474.0	411.5	410.1	360.8	295.4	249.9	216.8	148.1	537.9	501.2	485.8	420.3	419.6	369.6	302.0	254.3	220.5	-	-	-	-	-	-	-
164.0	130.7	504.9	468.1	449.0	392.4	388.7	341.7	279.3	235.9	205.0	124.1	518.1	478.4	460.0	402.0	398.3	350.5	285.9	240.3	208.3	-	-	-	-	-	-	-
177.2	109.8	478.4	447.5	425.5	374.8	368.2	324.1	264.6	222.7	194.0	103.4	491.6	456.4	436.5	385.8	379.2	332.9	271.2	227.1	197.3	-	-	-	-	-	-	-
190.3	93.6	456.4	429.9	406.4	360.1	350.5	309.4	252.8	212.4	184.5	87.2	469.6	438.7	417.4	369.6	361.6	318.2	259.4	217.5	188.5	-	-	-	-	-	-	-
203.4	79.1	435.8	413.0	388.0	346.9	334.4	294.7	241.0	202.8	175.6	72.6	449.7	422.6	399.8	354.9	345.4	303.5	247.7	210.0	180.0	-	-	-	-	-	-	-
216.5	66.4	416.7	396.8	370.4	335.1	319.7	280.0	229.3	194.0	167.6	59.5	432.1	407.9	383.6	341.7	330.7	288.8	235.9	198.4	172.0	-	-	-	-	-	-	-
229.7	55.8	400.5	385.1	355.7	323.3	306.4	268.2	219.7	185.9	160.2	49.1	414.5	394.6	367.4	331.4	317.5	277.0	225.6	190.3	164.6	-	-	-	-	-	-	-
242.8	46.2	385.1	374.1	341.7	313.1	293.9	257.9	210.5	178.6	153.6	39.5	398.3	382.9	352.7	321.1	305.0	266.0	216.4	183.0	158.0	-	-	-	-	-	-	-
255.9	37.5	370.4	363.8	328.5	304.2	282.2	249.1	201.7	172.0	147.7	30.6	383.6	372.6	339.5	310.9	293.2	255.7	208.3	176.4	152.1	-	-	-	-	-	-	-
269.0	30.3	358.6	354.9	318.2	295.4	273.4	240.3	194.4	165.3	142.6	23.3	371.8	363.8	329.2	302.0	282.9	246.9	201.0	169.8	146.2	-	-	-	-	-	-	-
282.2	23.7	348.3	346.9	308.6	288.1	265.3	232.2	187.4	159.1	137.4	16.5	359.8	354.9	318.9	294.7	273.4	238.8	194.0	163.5	141.1	-	-	-	-	-	-	-
292.0	19.1	341.7	341.3	302.0	283.7	259.8	226.7	182.4	154.7	133.6	11.9	350.5	348.3	311.2	290.3	266.8	233.3	189.0	159.1	137.8	-	-	-	-	-	-	-
295.3	17.6	339.5	339.5	299.8	282.2	257.9	224.9	180.8	153.2	132.3	-	348.3	346.1	308.6	288.8	264.6	231.5	187.4	157.6	136.7	-	-	-	-	-	-	-
308.4	12.5	330.7	330.7	292.8	276.9	250.6	218.3	175.6	148.1	127.9	-	333.6	332.9	301.3	282.9	257.1	224.0	180.8	152.3	131.5	-	-	-	-	-	-	-
311.7	11.2	328.5	328.5	291.0	275.6	248.8	216.6	174.3	146.8	126.8	-	330.0	329.6	299.5	281.5	255.3	222.2	179.7	151.0	130.3	-	-	-	-	-	-	-
321.5	-	-	-	284.4	273.4	244.3	212.4	170.9	143.3	123.5	-	317.5	317.5	293.9	277.8	250.6	217.9	176.0	147.7	127.1	-	-	-	-	-	-	-
328.1	-	-	-	-	-	241.6	209.8	168.7	141.1	121.3	-	308.6	308.6	290.3	275.6	247.7	215.3	173.4	145.5	125.3	-	-	-	-	-	-	-
331.4	-	-	-	-	-	240.3	208.5	167.6	140.0	120.2	-	-	-	288.4	274.5	246.2	214.0	172.1	144.4	124.4	-	-	-	-	-	-	-
334.6	-	-	-	-	-	-	207.2	166.4	138.9	119.0	-	-	-	-	286.6	273.4	244.7	212.7	170.9	143.3	123.5	-	-	-	-	-	-
337.9	-	-	-	-	-	-	206.1	165.5	138.0	117.6	-	-	-	-	284.4	273.4	243.6	211.6	169.8	142.4	122.2	-	-	-	-	-	-
347.8	-	-	-	-	-	-	-	162.8	135.2	113.2	-	-	-	-	-	240.3	208.3	166.4	139.6	118.3	-	-	-	-	-	-	-
357.6	-	-	-	-	-	-	-	159.8	132.8	109.1	-	-	-	-	-	-	205.0	164.2	137.0	114.6	-	-	-	-	-	-	-
360.9	-	-	-	-	-	-	-	-	132.3	108.0	-	-	-	-	-	-	-	163.4	136.1	113.5	-	-	-	-	-	-	-
374.0	-	-	-	-	-	-	-	-	130.1	103.6	-	-	-	-	-	-	-	159.8	132.3	108.9	-	-	-	-	-	-	-
377.3	-	-	-	-	-	-	-	-	129.0	102.6	-	-	-	-	-	-	-	-	131.7	107.9	-	-	-	-	-	-	-
387.1	-	-	-	-	-	-	-	-	-	99.6	-	-	-	-	-	-	-	-	130.1	104.8	-	-	-	-	-	-	-
393.7	-	-	-	-	-	-	-	-	-	97.9	-	-	-	-	-	-	-	-	129.0	102.7	-	-	-	-	-	-	-
397.0	-	-	-	-	-	-	-	-	-	97.0	-	-	-	-	-	-	-	-	-	101.9	-	-	-	-	-	-	-
400.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101.0	-	-	-	-	-	-	-
413.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98.1	-	-	-	-	-	-	-





# Operation

# LSL+LF\_7

    																							
374.0 ft									393.7 ft														
49.2 ft			59.0 ft			68.9 ft			78.7 ft			98.4 ft			118.1 ft			137.8 ft					
0 lb - 1,191,000 lb									0 lb - 1,191,000 lb														
15°			20°			15°			20°			15°			20°			15°					
ft																							
1,000 lb																							
59.1	465.2	551.2	-	-	-	-	-	-	-	-	-	-	449.7	551.2	-	-	-	-	-	-	-	-	
62.3	439.8	551.2	551.2	551.2	551.2	-	-	-	-	-	-	-	425.5	551.2	-	551.2	-	-	-	-	-	-	
65.6	414.5	551.2	551.2	551.2	551.2	551.2	551.2	-	-	-	-	-	401.2	551.2	551.2	551.2	-	-	-	-	-	-	
68.9	394.6	551.2	551.2	551.2	551.2	551.2	551.2	518.1	-	-	-	-	382.0	551.2	551.2	551.2	551.2	551.2	537.9	498.2	-	-	
72.2	374.8	551.2	551.2	551.2	551.2	551.2	551.2	517.4	-	-	-	-	362.7	551.2	551.2	551.2	551.2	551.2	537.9	498.2	-	-	
75.5	354.9	551.2	551.2	551.2	551.2	551.2	551.2	516.6	421.1	-	-	-	343.4	551.2	551.2	551.2	551.2	551.2	537.9	498.2	403.4	-	
78.7	335.1	551.2	551.2	551.2	551.2	551.2	551.2	515.9	421.1	-	-	-	324.1	551.2	551.2	551.2	551.2	551.2	537.9	498.2	403.4	-	
82.0	320.8	551.2	551.2	551.2	551.2	551.2	551.2	512.6	417.8	341.7	-	-	309.7	551.2	551.2	551.2	551.2	550.1	537.9	497.1	402.3	-	
85.3	306.4	551.2	551.2	551.2	551.2	551.2	551.2	509.3	414.5	341.0	-	-	295.4	551.2	551.2	551.2	549.0	537.9	496.0	401.2	330.7	-	
88.6	292.1	551.2	551.2	551.2	551.2	551.2	551.2	506.0	411.2	340.2	275.6	281.1	551.2	551.2	551.2	551.2	547.8	537.9	494.9	400.1	330.7	-	
91.9	277.8	551.2	551.2	551.2	551.2	551.2	551.2	502.7	407.9	339.5	275.6	266.8	551.2	551.2	551.2	551.2	546.7	537.9	493.8	399.0	330.7	266.8	
98.4	254.6	551.2	551.2	551.2	551.2	536.8	542.3	490.5	399.0	330.7	272.3	244.7	551.2	551.2	551.2	551.2	535.7	533.5	487.2	394.6	325.2	265.7	
111.5	212.7	551.2	551.2	551.2	509.3	520.3	464.1	379.2	313.1	265.7	203.9	551.2	551.2	551.2	551.2	512.6	520.3	467.4	380.3	313.1	262.4	-	
124.7	179.3	551.2	551.2	548.2	485.0	493.8	438.0	358.6	296.2	255.7	170.9	551.2	551.2	550.4	490.2	499.0	443.1	360.8	301.3	255.0	-	-	
137.8	149.9	551.2	551.2	542.3	463.0	467.4	414.5	339.5	280.0	242.5	142.2	551.2	551.2	549.0	469.6	474.0	421.1	341.7	286.6	244.7	-	-	
150.9	127.1	551.2	527.6	514.4	443.9	445.3	395.4	321.9	265.3	229.3	120.2	551.2	532.0	522.5	450.5	451.9	400.5	325.5	271.9	233.0	-	-	
164.0	105.2	543.1	504.9	488.7	425.5	424.8	377.0	305.7	252.1	217.9	99.1	546.7	512.2	497.5	432.1	431.4	382.1	310.9	258.7	221.6	-	-	
177.2	84.0	526.9	482.8	465.2	407.9	405.7	359.4	291.0	240.3	208.3	78.9	537.9	491.6	474.0	414.5	412.3	366.0	297.6	246.9	210.5	-	-	
190.3	67.5	504.9	465.2	446.1	391.7	386.5	343.2	279.3	230.0	198.8	62.3	515.9	474.0	454.9	398.3	394.6	349.8	284.4	235.2	201.7	-	-	
203.4	52.7	485.0	449.0	427.7	377.0	369.6	328.5	267.5	220.5	190.0	47.4	496.0	457.8	436.5	383.6	377.7	335.1	272.6	224.9	193.3	-	-	
216.5	39.5	467.4	434.3	410.1	363.8	354.9	315.3	255.7	211.6	181.9	34.2	478.4	443.1	418.9	370.4	361.6	321.9	262.4	216.1	185.2	-	-	
229.7	28.1	451.2	421.1	395.4	352.0	341.7	302.0	245.4	203.6	175.3	22.3	457.8	429.9	404.2	358.6	348.3	308.6	252.1	208.0	178.6	-	-	
242.8	17.3	432.1	409.0	381.8	340.8	329.2	289.5	235.9	195.8	168.7	11.0	429.9	416.7	390.2	348.3	335.8	296.5	241.6	200.3	172.0	-	-	
249.3	12.1	421.1	403.4	375.7	335.5	323.3	283.7	231.5	192.2	165.3	-	415.6	409.0	384.7	342.8	330.7	291.0	236.3	196.6	168.7	-	-	
255.9	-	405.7	396.8	370.4	330.7	317.5	277.8	227.1	188.5	162.0	-	401.2	401.2	379.2	337.3	326.3	286.6	231.5	192.9	165.3	-	-	
269.0	-	380.7	377.7	358.6	321.9	307.2	269.0	218.3	183.0	156.9	-	374.8	376.3	367.4	328.5	316.0	276.3	223.4	187.0	159.8	-	-	
282.2	-	356.4	357.1	346.9	313.8	297.6	260.1	210.2	176.7	151.8	-	350.5	352.0	350.5	320.4	305.7	266.8	215.7	181.1	155.1	-	-	
295.3	-	332.9	335.1	335.1	306.4	288.8	251.3	202.8	170.9	146.6	-	328.5	328.5	328.5	313.1	295.4	257.9	208.3	175.3	149.9	-	-	
308.4	-	313.8	314.5	314.5	299.1	280.0	244.0	196.2	165.7	142.2	-	306.4	309.1	308.6	306.0	286.6	250.6	201.7	169.5	145.5	-	-	
321.5	-	295.4	295.4	295.4	292.5	271.2	237.4	190.7	160.6	137.8	-	288.8	291.0	289.5	291.0	278.5	243.2	195.5	164.2	141.1	-	-	
334.6	-	277.8	277.8	277.8	280.0	264.6	229.3	185.2	155.4	133.4	-	271.2	273.4	273.4	273.4	271.2	235.9	189.6	159.8	136.7	-	-	
347.8	-	263.1	263.1	263.1	263.8	258.7	223.4	180.0	151.0	130.1	-	256.5	257.2	257.2	258.7	257.9	230.0	184.5	154.7	133.0	-	-	
360.9	-	249.1	249.1	249.1	249.1	249.1	218.3	175.3	147.0	126.0	-	242.5	242.5	242.5	244.0	244.7	224.5	179.7	150.5	129.0	-	-	
374.0	-	235.9	235.9	235.9	235.9	235.9	213.8	170.9	143.3	122.4	-	229.3	229.3	229.3	229.3	231.5	219.4	175.3	146.6	124.6	-	-	
380.6	-	229.3	229.3	229.3	230.4	230.0	212.0	169.1	141.5	120.2	-	223.1	223.5	223.1	223.5	225.2	217.2	173.1	144.8	123.1	-	-	
387.1	-	-	-	222.7	224.9	224.1	210.2	167.3	139.6	117.9	-	216.9	217.8	216.9	217.8	219.0	215.0	170.9	142.9	121.6	-	-	
397.0	-	-	-	-	-	216.1	207.5	164.6	137.1	114.7	-	208.3	208.3	208.9	208.9	210.0	210.0	167.9	140.4	119.3	-	-	
400.3	-	-	-	-	-	-	206.7	163.9	136.3	113.7	-	-	-	206.1	206.1	207.2	207.2	167.2	139.6	118.4	-	-	
406.8	-	-	-	-	-	-	205.0	162.4	134.8	111.6	-	-	-	-	200.6	200.6	201.7	165.7	138.2	116.6	-	-	
413.4	-	-	-	-	-	-	-	160.9	133.4	109.6	-	-	-	-	-	-	196.2	196.2	164.2	136.7	114.6	-	
416.7	-	-	-	-	-	-	-	160.4	132.8	108.6	-	-	-	-	-	-	194.0	193.6	163.5	136.0	113.1	-	
423.2	-	-	-	-	-	-	-	159.3	131.7	106.7	-	-	-	-	-	-	-	188.5	162.0	134.5	110.7	-	
426.5	-	-	-	-	-	-	-	158.7	131.2	105.7	-	-	-	-	-	-	-	-	161.3	133.7	109.7	-	-
439.6	-	-	-	-	-	-	-	-	129.0	102.2	-	-	-	-	-	-	-	-	159.1	131.2	106.2	-	-
442.9	-	-	-	-	-	-	-	-	128.4	101.4	-	-	-	-	-	-	-	-	158.7	130.6	105.4	-	-
446.2	-	-	-	-	-	-	-	-	127.9	100.6	-	-	-	-	-	-	-	-	-	130.1	104.6	-	-
452.8	-	-	-	-	-	-	-	-	-	99.2	-	-	-	-	-	-	-	-	-	129.0	103.0	-	-
462.6	-	-	-	-	-	-	-	-	-	97.7	-	-	-	-	-	-	-	-	-	127.9	101.0	-	-
465.9	-	-	-	-	-	-	-	-	-	97.2	-	-	-	-	-	-	-	-	-	-	100.3	-	-
479.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98.0	-	-
482.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	97.4	-	-

							
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# Operation

LSL+LF\_7

551.2 klb +  132.3 klb ZB  59.0-98.4 ft  31.5 ft  32.2 ft/s 360° ASME B30.5																				
413.4 ft									433.1 ft											
49.2 ft			59.0 ft			68.9 ft			78.7 ft			98.4 ft			118.1 ft			137.8 ft		
0 lb									0 lb - 1,191,000 lb											
15°			20°			15°			20°			15°			20°			15°		
ft																				
1,000 lb																				
62.3	407.9	551.2	-	-	-	-	-	-	-	-	-	-	392.4	551.2	-	-	-			
65.6	385.8	551.2	551.2	549.0	-	-	-	-	-	-	-	-	370.4	551.2	-	518.1	-			
68.9	367.1	551.2	551.2	549.0	520.3	509.3	-	-	-	-	-	-	352.7	551.2	535.7	518.1	-			
72.2	348.3	551.2	551.2	549.0	520.3	509.3	471.8	-	-	-	-	-	299.8	551.2	535.7	518.1	493.8			
78.7	310.9	551.2	551.2	549.0	520.3	509.3	471.8	385.8	-	-	-	-	286.0	551.2	535.7	518.1	493.8			
82.0	297.1	551.2	551.2	549.0	520.3	509.3	471.8	385.8	-	-	-	-	272.3	551.2	535.7	518.1	493.8			
85.3	283.3	551.2	551.2	549.0	520.3	509.3	471.8	385.8	313.1	-	-	-	258.5	551.2	535.7	518.1	493.8			
88.6	269.5	551.2	551.2	549.0	520.3	509.3	471.8	385.8	313.1	257.9	244.7	551.2	535.7	518.1	493.8	482.8	447.5			
91.9	255.7	551.2	551.2	549.0	520.3	509.3	471.8	385.8	313.1	257.9	233.7	551.2	535.7	518.1	493.8	482.8	447.5			
95.1	244.7	551.2	551.2	549.0	520.3	509.3	470.7	385.8	313.1	257.9	222.7	551.2	535.7	518.1	493.8	482.8	447.5			
98.4	233.7	551.2	551.2	549.0	520.3	509.3	469.6	385.8	313.1	257.9	222.7	551.2	535.7	518.1	493.8	482.8	447.5			
111.5	193.5	551.2	551.2	549.0	514.8	509.3	460.8	379.2	313.1	256.8	183.0	551.2	534.6	514.8	492.7	479.5	444.2			
124.7	161.3	551.2	551.2	547.5	499.0	501.2	444.6	363.8	305.0	252.1	151.4	545.3	527.6	505.6	485.8	471.1	435.0			
137.8	133.4	551.2	551.2	544.5	478.4	485.0	425.5	346.1	288.8	244.7	123.5	533.5	515.9	493.8	474.0	460.8	423.3			
150.9	111.5	551.2	536.5	525.4	459.3	463.0	406.4	330.0	275.6	234.4	102.1	517.4	501.2	479.1	456.4	447.5	405.7			
164.0	91.1	549.7	518.8	504.9	440.9	441.7	388.0	315.3	263.1	224.1	82.9	501.2	485.0	464.4	438.7	432.8	388.0			
177.2	72.3	546.7	498.2	482.8	423.3	421.1	370.4	302.0	251.3	213.8	65.7	485.0	469.6	449.7	421.1	416.7	370.4			
190.3	55.7	525.4	480.6	462.2	408.6	403.4	355.7	290.3	241.0	205.0	48.8	467.4	451.9	433.6	404.9	399.0	354.2			
203.4	40.5	506.3	465.2	443.9	394.6	387.3	341.7	278.5	231.5	196.6	32.8	451.2	433.6	418.1	389.5	382.9	338.8			
216.5	26.7	487.2	451.9	427.7	381.4	372.6	328.5	266.8	222.7	188.5	17.9	436.5	414.5	403.4	374.8	368.2	324.1			
223.1	20.5	471.3	444.9	420.6	375.2	366.0	321.9	261.6	218.6	185.2	11.2	429.9	407.9	392.4	370.4	360.8	318.2			
229.7	14.3	455.5	437.8	413.6	369.1	359.4	315.3	256.5	214.6	181.9	-	422.2	400.1	384.7	363.8	353.5	312.3			
232.9	11.2	447.5	434.3	410.1	366.0	356.0	312.0	253.9	212.6	180.2	-	418.3	396.3	380.8	360.5	349.8	309.4			
242.8	-	423.3	419.6	399.8	358.6	346.9	303.8	246.9	206.9	175.3	-	404.9	385.8	370.4	351.3	338.0	301.3			
255.9	-	392.4	394.6	388.0	348.3	335.1	293.2	238.1	199.5	168.7	-	385.8	372.6	357.1	339.5	326.3	291.0			
269.0	-	367.4	368.2	366.0	338.0	324.8	282.9	229.3	192.9	163.5	-	359.4	356.4	345.4	328.5	316.0	282.2			
282.2	-	343.2	343.9	343.9	329.2	314.5	273.4	221.0	186.3	158.4	-	335.1	335.1	335.1	319.7	306.4	273.4			
295.3	-	319.7	321.9	321.9	321.9	304.2	264.6	212.7	179.7	153.2	-	313.1	313.1	313.1	310.9	297.6	266.8			
308.4	-	300.6	300.7	300.7	302.9	295.4	255.7	206.5	173.8	148.1	-	292.5	293.9	293.9	293.2	288.8	259.4			
321.5	-	282.2	282.2	282.2	284.4	282.9	248.4	199.9	168.3	143.3	-	274.1	275.6	275.6	275.6	276.3	252.8			
334.6	-	264.6	264.6	264.6	266.8	266.8	242.5	194.0	163.1	138.9	-	257.9	257.9	257.9	257.9	260.1	246.9			
347.8	-	249.9	249.9	249.9	250.6	252.1	235.2	188.9	158.7	135.2	-	242.1	242.1	241.8	243.2	244.0	239.6			
360.9	-	235.5	235.5	235.5	235.9	237.4	228.5	184.1	154.3	131.5	-	227.1	228.5	227.1	228.2	228.4	229.3			
374.0	-	220.5	222.7	222.7	222.7	222.7	222.7	178.6	149.9	127.9	-	213.8	213.8	213.8	215.0	216.1	216.1			
387.1	-	209.4	210.2	210.2	210.2	210.9	211.2	175.3	146.4	124.9	-	201.4	202.1	202.1	202.5	203.6	203.6			
400.3	-	198.4	198.4	198.4	198.8	199.5	199.5	171.2	142.6	121.7	-	190.0	190.7	190.7	190.7	191.8	191.8			
413.4	-	187.4	187.4	187.4	188.5	188.5	188.5	167.6	138.9	119.0	-	179.7	179.7	179.7	179.7	180.8	180.8			
423.2	-	-	-	179.7	180.8	181.3	181.3	165.3	137.2	115.7	-	172.0	172.0	172.2	172.2	173.5	173.5			
426.5	-	-	-	-	-	178.9	178.9	164.6	136.7	114.6	-	169.2	169.8	169.8	169.8	171.1	171.1			
429.8	-	-	-	-	-	176.6	176.6	163.9	135.6	113.5	-	166.4	167.6	167.6	167.6	168.7	168.7			
433.1	-	-	-	-	-	174.2	174.2	163.1	134.5	112.4	-	-	-	-	165.3	165.3	166.4			
439.6	-	-	-	-	-	-	169.8	161.7	133.6	110.5	-	-	-	-	159.8	160.9	162.0			
442.9	-	-	-	-	-	-	167.6	160.9	133.2	109.6	-	-	-	-	159.8	159.8	161.8			
449.5	-	-	-	-	-	-	-	159.5	132.3	107.7	-	-	-	-	155.4	155.4	158.3			
452.8	-	-	-	-	-	-	-	158.7	131.2	106.7	-	-	-	-	-	153.2	156.5			
459.3	-	-	-	-	-	-	-	157.6	130.3	104.9	-	-	-	-	-	148.8	152.1			
465.9	-	-	-	-	-	-	-	-	129.4	103.4	-	-	-	-	-	-	147.7			
479.0	-	-	-	-	-	-	-	-	126.8	100.6	-	-	-	-	-	-	140.0			
492.1	-	-	-	-	-	-	-	-	-	98.1	-	-	-	-	-	-	127.9			
495.4	-	-	-	-	-	-	-	-	-	97.6	-	-	-	-	-	-	126.8			
498.7	-	-	-	-	-	-	-	-	-	97.0	-	-	-	-	-	-	126.8			
515.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95.9			

	0 lb	110,250 lb	242,500 lb	374,800 lb	595,300 lb	815,800 lb	992,100 lb	1,191,000 lb
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# Operation

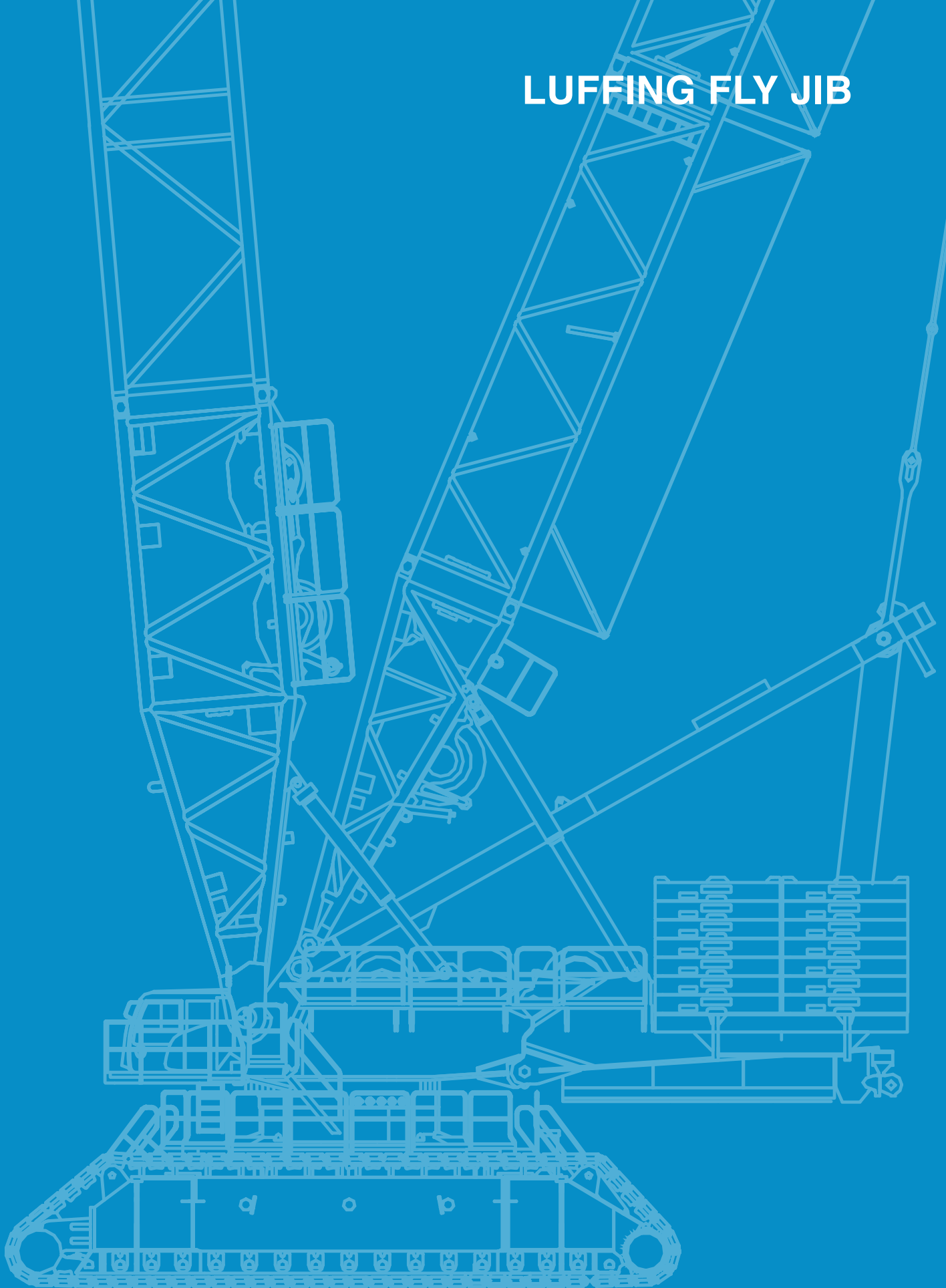
LSL+LF\_7

		551.2 klb + 132.3 klb ZB		59.0-98.4 ft		31.5 ft		32.2 ft/s		360°		ASME B30.5																			
		531.5 ft										551.2 ft																			
		49.2 ft		59.0 ft		68.9 ft		78.7 ft		98.4 ft		118.1 ft		137.8 ft		49.2 ft		59.0 ft		68.9 ft		78.7 ft		98.4 ft		118.1 ft		137.8 ft			
		0 lb		0 lb - 1,191,000 lb										0 lb		0 lb - 1,191,000 lb															
		15°		20°		15°		20°		15°		20°		15°		20°		15°		20°		15°		20°		15°		20°			
ft		1,000 lb																													
72.2	269.0	372.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
75.5	253.5	371.5	359.4	348.3	-	-	-	-	-	-	-	-	-	242.5	337.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
78.7	238.1	370.4	359.4	348.3	335.1	328.5	-	-	-	-	-	-	-	229.3	335.1	328.5	317.5	-	-	-	-	-	-	-	-	-	-	-	-	-	
82.0	226.0	369.8	359.4	348.3	335.1	328.5	308.6	-	-	-	-	-	-	217.2	334.6	328.5	316.9	306.4	299.8	-	-	-	-	-	-	-	-	-	-	-	
85.3	213.8	369.3	359.4	348.3	335.1	328.5	308.6	273.4	-	-	-	-	-	205.0	334.0	328.5	316.4	306.4	299.8	282.2	-	-	-	-	-	-	-	-	-	-	
88.6	201.7	368.7	359.4	348.3	335.1	328.5	308.6	273.4	273.4	-	-	-	-	192.9	333.4	328.5	315.8	306.4	299.8	282.2	-	-	-	-	-	-	-	-	-	-	
91.9	189.6	368.2	359.4	348.3	335.1	328.5	308.6	273.4	273.4	-	-	-	-	180.8	332.9	328.5	315.3	306.4	299.8	282.2	251.3	-	-	-	-	-	-	-	-	-	
95.1	179.7	367.6	359.4	348.3	335.1	328.5	308.6	273.4	233.7	-	-	-	-	170.9	332.3	327.9	314.7	306.4	299.3	281.6	251.3	-	-	-	-	-	-	-	-	-	
98.4	169.8	367.1	359.4	347.2	335.1	328.5	308.6	273.4	233.7	-	-	-	-	160.9	331.8	327.4	314.2	306.4	298.7	281.1	251.3	217.2	-	-	-	-	-	-	-	-	
101.7	159.8	366.5	359.4	346.7	335.1	328.5	308.6	273.4	233.7	197.3	-	-	-	151.0	331.2	326.8	313.6	306.4	298.2	280.5	251.3	217.2	-	-	-	-	-	-	-	-	
105.0	149.9	366.0	359.4	346.1	335.1	328.5	308.6	273.4	233.7	197.3	141.1	330.7	326.3	313.1	312.0	306.4	297.6	280.0	251.3	217.2	185.2	-	-	-	-	-	-	-	-	-	
111.5	133.9	364.9	358.3	345.0	335.1	327.4	307.5	273.4	233.7	197.3	125.3	329.6	325.2	312.0	305.3	296.5	280.0	251.3	217.2	185.2	-	-	-	-	-	-	-	-	-	-	
124.7	104.9	363.8	356.4	343.9	335.1	325.5	305.7	273.4	233.7	197.3	96.9	328.5	324.1	310.1	303.5	294.7	278.5	250.6	217.2	185.2	-	-	-	-	-	-	-	-	-	-	
137.8	78.9	363.8	354.9	343.9	335.1	324.1	304.2	273.4	233.7	197.3	71.7	328.5	324.1	308.6	302.0	293.2	277.8	249.1	217.2	185.2	-	-	-	-	-	-	-	-	-	-	
150.9	58.5	361.6	354.9	342.5	333.6	324.1	304.2	271.9	233.7	197.3	50.3	327.0	322.6	307.2	302.0	293.2	277.8	247.7	217.2	185.2	-	-	-	-	-	-	-	-	-	-	
164.0	37.2	360.1	354.2	341.7	332.9	324.1	304.2	271.2	233.7	197.3	28.8	325.4	321.0	306.4	302.0	292.3	277.0	246.9	217.2	185.2	-	-	-	-	-	-	-	-	-	-	
173.9	20.5	357.9	353.1	341.7	332.9	324.1	304.2	271.2	233.7	197.3	12.6	324.1	319.7	306.4	302.0	291.0	275.9	246.9	217.2	185.2	-	-	-	-	-	-	-	-	-	-	
177.2	15.0	357.1	352.7	341.7	332.9	324.1	304.2	271.2	233.7	197.3	-	324.1	319.7	306.4	302.0	291.0	275.6	246.9	217.2	185.2	-	-	-	-	-	-	-	-	-	-	
190.3	-	354.2	351.4	338.2	331.8	320.8	299.8	268.2	233.7	197.3	-	320.4	317.5	305.0	299.1	288.8	274.1	245.6	217.2	185.2	-	-	-	-	-	-	-	-	-	-	
203.4	-	351.3	348.3	335.1	328.5	317.5	296.2	265.3	232.2	196.2	-	317.9	315.3	302.8	296.2	287.3	272.6	244.0	216.4	185.2	-	-	-	-	-	-	-	-	-	-	
216.5	-	348.3	346.1	332.9	324.1	313.1	293.2	262.4	229.3	194.0	-	315.3	313.1	302.8	293.2	284.4	271.2	242.5	215.0	185.2	-	-	-	-	-	-	-	-	-	-	
229.7	-	343.2	341.7	328.5	320.6	309.5	289.7	257.9	224.9	191.1	-	311.3	308.6	296.9	292.1	283.3	267.9	239.6	212.3	184.5	-	-	-	-	-	-	-	-	-	-	
242.8	-	338.8	337.3	324.1	315.3	304.2	284.4	253.5	218.7	185.9	-	307.2	305.0	293.2	288.8	280.0	264.6	235.9	209.8	182.2	-	-	-	-	-	-	-	-	-	-	
255.9	-	332.9	332.9	319.7	310.9	299.8	280.0	249.1	211.6	179.7	-	304.2	302.0	288.8	284.4	275.6	260.1	231.5	206.1	178.6	-	-	-	-	-	-	-	-	-	-	
269.0	-	313.8	313.8	309.4	306.4	295.4	275.6	244.7	205.0	173.8	-	295.4	294.7	283.7	281.5	272.6	257.2	228.5	202.8	173.4	-	-	-	-	-	-	-	-	-	-	
282.2	-	295.4	295.4	293.9	294.3	288.8	270.7	239.6	198.4	168.3	-	282.2	282.2	276.3	275.1	267.6	252.6	225.6	198.2	168.3	-	-	-	-	-	-	-	-	-	-	
295.3	-	275.6	277.8	275.6	275.6	275.6	266.8	233.7	191.8	163.1	-	264.6	264.6	264.6	264.6	262.4	249.1	222.7	192.9	163.1	-	-	-	-	-	-	-	-	-	-	
308.4	-	256.5	258.7	256.5	257.9	257.9	256.5	227.8	186.7	157.6	-	248.4	248.4	248.4	248.4	247.7	241.8	218.3	187.8	158.7	-	-	-	-	-	-	-	-	-	-	
321.5	-	238.1	240.3	238.1	240.3	240.3	242.5	221.9	181.9	153.2	-	231.9	232.2	232.2	233.0	233.0	231.1	214.2	183.0	154.3	-	-	-	-	-	-	-	-	-	-	
334.6	-	220.5	222.7	220.5	222.7	222.7	224.9	216.1	177.5	148.8	-	215.0	216.1	216.1	218.3	218.3	217.2	210.5	178.6	149.9	-	-	-	-	-	-	-	-	-	-	
347.8	-	205.0	205.8	205.8	207.2	207.2	208.3	210.2	173.1	145.1	-	199.5	200.6	200.6	202.1	202.8	202.6	205.0	174.2	146.4	-	-	-	-	-	-	-	-	-	-	-
360.9	-	190.3	191.4	191.4	192.5	193.6	194.0	200.3	168.9	141.5	-	184.8	185.9	185.9	187.0	188.1	188.5	194.7	170.1	142.6	-	-	-	-	-	-	-	-	-	-	-
374.0	-	176.4	177.5	177.5	178.6	179.7	180.8	186.3	165.3	137.8	-	170.9	172.0	172.0	173.1	174.2	175.3	180.8	166.4	138.9	-	-	-	-	-	-	-	-	-	-	-
387.1	-	164.6	165.0	165.0	166.1	167.2	168.3	173.8	161.7	134.8	-	158.4	159.5	159.5	160.6	161.7	162.8	168.3	162.8	136.0	-	-	-	-	-	-	-	-	-	-	-
400.3	-	152.9	153.2	153.2	154.3	155.4	156.2	161.7	158.0	131.9	-	146.6	147.7	147.7	148.8	149.9	150.6	156.2	157.6	133.0	-	-	-	-	-	-	-	-	-	-	-
413.4	-	141.1	142.2	142.2	143.3	144.4	144.4	149.9	154.3	129.0	-	135.6	136.7	136.7	137.8	138.9	138.9	144.4	151.0	130.1	-	-	-	-	-	-	-	-	-	-	-
426.5	-	131.5	132.6	132.6	133.0	134.1	134.8	139.6	144.8	126.0	-	125.7	126.8	126.8	128.1	128.3	128.6	134.1	140.0	127.1	-	-	-	-	-	-	-	-	-	-	-
439.6	-	122.4	122.4	122.4	123.5	124.6	125.1	130.1	135.2	123.1	-	116.6	117.7	116.8	117.9	118.8	119.0	124.6	130.1	124.6	-	-	-	-	-	-	-	-	-	-	-
452.8	-	113.5	113.5	113.5	114.6	115.7	115.7	121.3	125.7	120.2	-	107.4	108.2	108.0	109.1	109.6	110.2	115.7	120.2	122.4	-	-	-	-	-	-	-	-	-	-	-
465.9	-	105.2	105.6	105.5	106.4	107.2	107.5	112.6	116.8	116.1	-	99.1	100.0	99.8	100.8	101.3	101.9	107.1	111.8	115.7	-	-	-	-	-	-	-	-	-	-	-
479.0	-	97.3	97.9	97.7	98.5	99.2	99.6	104.4	108.6	111.6	-	91.6	92.4	92.2	93.0	93.5	94.0	98.8	103.6	108.5	-	-	-	-	-	-	-	-	-	-	-
492.1	-	89.9	90.4	90.2	91.1	91.7	91.9	96.6	101.0	105.6	-	84.9	85.3	85.1	85.8	86.2	86.6	91.1	95.7	100.5	-	-	-	-	-	-	-	-	-	-	-
515.1	-	79.6	79.8	79.8	80.1	80.7	80.9	84.5	88.3	92.7	-	75.0	75.4	75.3	75.8	76.3	76.5	80.0	83.3	87.7	-	-	-	-	-	-	-	-	-	-	-
518.4	-	-	-	78.5	78.7	79.4	79.7	83.1	86.7	91.0	-	73.6	74.1	73.9	74.5	75.0	75.2	78.6	81.9	86.1	-	-	-	-	-	-	-	-	-	-	-
524.9	-	-	-	75.8	75.8	76.9	77.1	80.2	83.5	87.6	-	70.2	70.5	71.0	71.9	72.3	72.5	75.9	79.1	82.8	-	-	-	-	-	-	-	-	-	-	-
531.5	-	-	-	-	-	74.3	74.5	77.4	80.2	84.2	-	65.9	65.9	67.9	67.9	69.7	69.9	73.2	76.3	79.6	-	-	-	-	-	-	-	-	-	-	-
534.8	-	-	-	-	-	72.3	72.8	76.1	79.0	82.7																					



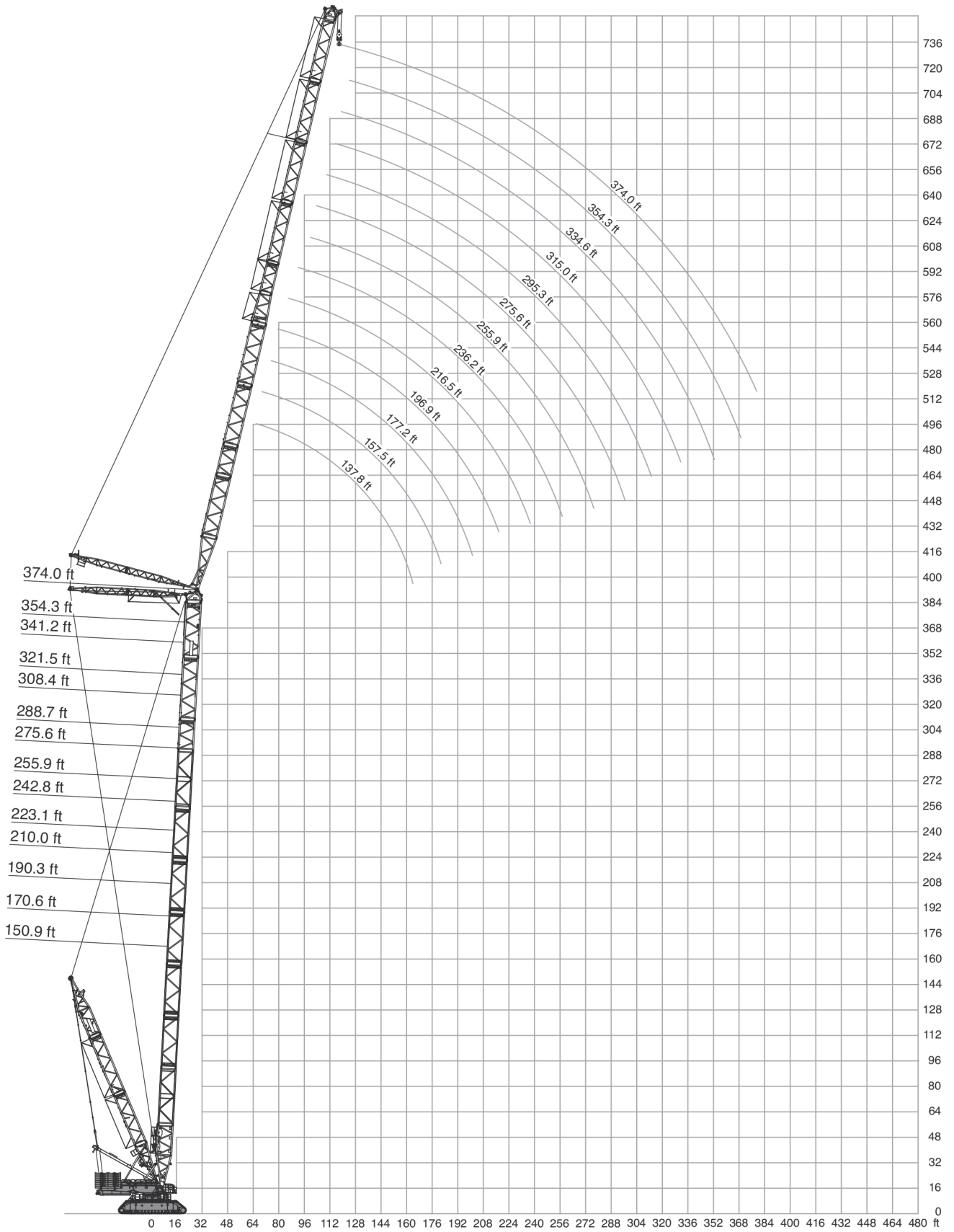


# LUFFING FLY JIB



# Operation

# SWSL\_1 , SWSL\_2 SFSL\_1 , SFSL\_2



# Operation

# SWSL\_2, SFSL\_2

463 klb + 44.1 klb ZB														49.2-78.7 ft		31.5 ft		32.2 ft/s		360°		ASME B30.5	
150.9 ft																							
118.1 ft			137.8 ft			157.5 ft			196.9 ft			236.2 ft											
SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2									
0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb									
87°/85°		15°		87°/85°		15°		87°/85°		15°		87°/85°		15°									
ft	1,000 lb														ft								
49.2	751.8*	1433.0*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49.2						
52.5	703.3*	1433.0*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52.5						
55.8	663.6*	1433.0*	-	641.5*	1358.0*	-	-	-	-	-	-	-	-	-	-	-	55.8						
59.1	608.5	1433.0	-	606.3*	1338.2*	-	586.4*	1225.8*	-	-	-	-	-	-	-	-	59.1						
65.6	544.5	1433.0	-	529.1	1408.8	-	526.9*	1188.3*	-	-	-	-	-	-	-	-	65.6						
68.9	519.2	1429.7	1433.0	503.8	1382.3	-	485.0	1265.5	-	469.6*	967.8*	-	-	-	-	-	68.9						
72.2	493.8	1426.4	1433.0	478.4	1360.3	-	463.0	1250.0	-	449.7*	956.8*	-	-	-	-	-	72.2						
75.5	472.9	1345.9	1408.8	457.5	1311.8	1280.9	443.1	1229.1	-	429.9*	946.9*	-	403.4*	767.2*	-	-	75.5						
78.7	451.9	1265.5	1384.5	436.5	1263.2	1280.9	423.3	1210.3	-	396.8	998.7	-	385.8*	760.6*	-	-	78.7						
82.0	433.2	1194.9	1352.5	418.9	1197.1	1253.3	405.7	1166.2	1126.6	380.3	988.8	-	370.4*	756.2*	-	-	82.0						
85.3	414.5	1124.4	1320.6	401.2	1131.0	1225.8	388.0	1122.2	1126.6	363.8	978.9	-	354.9*	751.8*	-	-	85.3						
91.9	374.8	1009.7	1223.6	370.4	1011.9	1166.2	359.4	1014.1	1084.7	335.1	965.6	-	315.3	778.2	-	-	91.9						
95.1	357.1	961.2	1178.4	354.9	964.5	1139.8	346.1	965.6	1059.3	323.0	934.8	897.3	303.1	774.9	-	-	95.1						
98.4	339.5	912.7	1133.2	339.5	917.1	1113.3	332.9	917.1	1034.0	310.9	903.9	897.3	291.0	773.8	-	-	98.4						
108.3	298.2	800.3	1016.3	298.2	803.0	1022.9	293.2	803.0	965.6	274.5	799.7	851.0	262.9	741.3	725.3	-	108.3						
111.5	284.4	762.8	981.1	284.4	765.0	987.7	280.0	765.0	943.6	262.4	765.0	831.1	253.5	731.9	725.3	-	111.5						
124.7	242.5	650.4	862.0	242.5	652.6	868.6	238.1	652.6	868.6	220.5	650.4	762.8	210.5	650.4	687.8	-	124.7						
131.2	226.3	576.9	813.5	226.0	609.6	819.0	221.6	609.6	820.1	203.9	607.4	733.0	195.1	606.3	660.3	-	131.2						
134.5	218.3	540.1	789.3	217.7	588.1	794.2	213.3	588.1	795.9	195.7	585.9	718.2	187.4	584.2	646.5	-	134.5						
137.8	-	-	765.0	209.4	566.6	769.4	205.0	566.6	771.6	187.4	564.4	703.3	179.7	562.2	632.7	-	137.8						
150.9	-	-	683.4	183.0	478.4	690.0	178.6	498.2	690.0	160.9	496.0	648.2	152.1	493.8	586.4	-	150.9						
154.2	-	-	666.3	177.5	449.7	672.4	173.1	481.2	673.0	155.4	481.7	636.6	146.6	479.5	576.0	-	154.2						
164.0	-	-	615.1	-	-	619.5	156.5	429.9	621.7	138.9	438.7	601.9	130.1	436.5	544.5	-	164.0						
167.3	-	-	600.2	-	-	604.6	152.1	408.6	606.8	134.5	427.1	591.4	125.7	424.9	534.6	-	167.3						
173.9	-	-	570.4	-	-	574.9	143.3	366.0	577.1	125.7	404.0	570.4	116.8	401.8	514.8	-	173.9						
177.2	-	-	555.6	-	-	560.0	-	-	562.2	121.3	392.4	560.0	112.4	390.2	504.9	-	177.2						
190.3	-	-	493.8	-	-	509.3	-	-	509.3	106.0	352.7	511.5	96.6	350.5	469.6	-	190.3						
203.4	-	-	440.9	-	-	454.2	-	-	465.2	94.1	310.9	467.4	83.6	317.5	438.7	-	203.4						
206.7	-	-	427.7	-	-	442.6	-	-	453.1	91.8	296.9	457.1	80.8	310.3	432.1	-	206.7						
213.3	-	-	401.2	-	-	419.4	-	-	428.8	87.1	269.0	436.5	75.3	296.0	418.9	-	213.3						
216.5	-	-	388.0	-	-	407.9	-	-	416.7	-	-	427.7	72.5	288.8	412.3	-	216.5						
229.7	-	-	337.3	-	-	359.4	-	-	377.0	-	-	392.4	63.5	262.4	388.0	-	229.7						
242.8	-	-	291.0	-	-	315.3	-	-	332.9	-	-	352.7	56.0	227.1	366.0	-	242.8						
246.1	-	-	279.4	-	-	305.3	-	-	323.5	-	-	345.0	54.5	216.6	358.3	-	246.1						
249.3	-	-	267.9	-	-	295.4	-	-	314.2	-	-	337.3	52.9	206.1	350.5	-	249.3						
255.9	-	-	244.7	-	-	275.6	-	-	295.4	-	-	321.9	-	-	335.1	-	255.9						
269.0	-	-	-	-	-	235.0	-	-	258.4	-	-	286.6	-	-	301.6	-	269.0						
272.3	-	-	-	-	-	224.9	-	-	249.1	-	-	278.9	-	-	293.2	-	272.3						
282.2	-	-	-	-	-	-	-	-	222.2	-	-	255.7	-	-	274.1	-	282.2						
292.0	-	-	-	-	-	-	-	-	195.1	-	-	232.6	-	-	255.4	-	292.0						
295.3	-	-	-	-	-	-	-	-	-	-	-	224.9	-	-	249.1	-	295.3						
308.4	-	-	-	-	-	-	-	-	-	-	-	196.2	-	-	222.7	-	308.4						
321.5	-	-	-	-	-	-	-	-	-	-	-	168.1	-	-	197.3	-	321.5						
331.4	-	-	-	-	-	-	-	-	-	-	-	146.6	-	-	179.1	-	331.4						
334.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	173.1	-	334.6						
347.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150.4	-	347.8						
360.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	126.8	-	360.9						
367.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	114.6	-	367.5						

0 lb 242,500 lb 374,800 lb 595,300 lb 815,800 lb 992,100 lb 1,191,000 lb

\* Main boom angle 87°

# Operation

# SWSL\_2, SFSL\_2

<b>463 klb + 44.1 klb ZB</b> <b>49.2-78.7 ft</b> <b>31.5 ft</b> <b>32.2 ft/s</b> <b>360°</b> <b>ASME B30.5</b>															
150.9 ft															
275.6 ft			315.0 ft			334.6 ft			354.3 ft			374.0 ft			
SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	
0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb	
87°/85°		15°		87°/85°		15°		87°/85°		15°		87°/85°		15°	
1,000 lb															
ft													ft		
85.3	335.1*	597.5*	-	-	-	-	-	-	-	-	-	-	-	85.3	
91.9	310.9*	590.8*	-	-	-	-	-	-	-	-	-	-	-	91.9	
95.1	298.7*	588.6*	-	284.4*	458.6*	-	-	-	-	-	-	-	-	95.1	
98.4	275.6	599.7	-	273.4*	456.4*	-	262.4*	403.4*	-	-	-	-	-	98.4	
101.7	266.2	597.5	-	264.0*	454.2*	-	253.5*	401.2*	-	249.1*	348.3*	-	-	101.7	
108.3	247.5	593.0	-	245.3*	449.7*	-	235.9*	396.8*	-	231.5*	345.4*	-	222.7*	304.2*	108.3
111.5	238.1	590.8	-	224.9	456.4	-	227.1*	394.6*	-	222.7*	343.9*	-	215.0*	302.0*	111.5
124.7	206.1	582.0	577.6	196.2	449.7	-	188.5	392.4	-	184.1	341.7	-	176.4	299.8	124.7
137.8	173.1	562.2	566.6	166.4	440.9	438.7	162.0	388.0	-	160.9	335.1	-	154.3	293.2	137.8
144.4	160.4	529.1	552.3	152.7	437.6	438.7	148.3	384.7	381.4	148.3	332.9	-	143.3	291.0	144.4
150.9	147.7	496.0	537.9	138.9	434.3	438.7	134.5	381.4	381.4	135.6	330.7	328.5	132.3	288.8	150.9
157.5	137.2	467.4	518.1	129.0	426.6	436.5	124.0	378.1	379.2	124.6	327.4	326.3	121.3	285.5	157.5
164.0	126.8	438.7	498.2	119.0	418.9	434.3	113.5	374.8	377.0	113.5	324.1	324.1	110.2	282.2	164.0
177.2	107.8	392.4	465.2	101.2	390.2	423.3	96.8	366.0	370.4	96.1	317.5	319.7	92.2	275.6	177.2
190.3	92.4	352.7	436.5	85.5	350.5	403.4	81.6	348.3	366.0	81.8	310.9	313.1	78.3	269.0	190.3
203.4	79.4	317.5	405.7	72.1	317.5	377.0	68.1	315.3	357.1	68.8	299.8	306.4	65.5	262.4	203.4
216.5	68.1	288.8	381.4	60.8	286.6	354.9	56.7	284.4	341.7	57.1	286.6	297.6	54.2	255.7	216.5
229.7	58.2	262.4	357.1	51.4	262.4	332.9	47.0	260.1	319.7	47.2	260.1	288.8	44.1	246.9	229.7
242.8	49.8	240.3	335.1	42.8	240.3	310.9	38.4	238.1	299.8	38.6	238.1	280.0	35.3	233.7	242.8
255.9	42.5	220.5	317.5	35.3	220.5	293.2	30.9	217.2	282.2	31.1	218.3	271.2	27.8	216.1	255.9
269.0	36.4	200.6	299.8	28.7	202.8	277.8	24.0	199.5	266.3	24.3	200.6	260.1	21.2	198.4	269.0
282.2	31.3	174.2	281.5	22.9	186.3	261.6	18.1	184.1	250.6	18.3	185.2	244.7	20.3*	181.9	282.2
288.7	29.3	158.7	271.9	20.5	179.7	254.3	15.4	176.9	243.2	15.4	178.0	238.1	17.3*	174.7	288.7
292.0	-	-	267.1	19.3	175.8	250.6	19.4*	173.3	239.6	19.5*	174.4	234.8	15.9*	171.1	292.0
295.3	-	-	262.4	18.1	172.0	246.9	18.1*	169.8	235.9	18.1*	170.9	231.5	-	167.6	295.3
301.8	-	-	249.9	15.9	165.3	241.0	15.7*	163.1	230.0	15.4*	164.2	224.9	-	160.9	301.8
308.4	-	-	237.4	20.9*	155.4	235.2	-	156.5	224.1	-	157.6	218.3	-	154.3	308.4
321.5	-	-	215.0	15.4*	134.5	221.9	-	143.3	212.7	-	145.5	206.5	-	142.2	321.5
324.8	-	-	210.0	-	129.0	218.3	-	138.9	210.0	-	142.7	203.9	-	139.7	324.8
334.6	-	-	195.1	-	-	207.2	-	125.7	201.7	-	134.5	196.2	-	132.3	334.6
337.9	-	-	189.6	-	-	203.1	-	120.9	199.0	-	130.9	193.7	-	129.7	337.9
344.5	-	-	178.9	-	-	194.8	-	111.3	192.6	-	123.7	188.8	-	124.6	344.5
347.8	-	-	173.6	-	-	190.7	-	-	189.0	-	120.2	186.3	-	121.3	347.8
357.6	-	-	158.4	-	-	176.2	-	-	178.0	-	107.8	177.8	-	114.1	357.6
360.9	-	-	153.6	-	-	171.6	-	-	174.2	-	103.6	174.9	-	111.3	360.9
364.2	-	-	148.8	-	-	167.0	-	-	170.3	-	99.0	172.0	-	107.6	364.2
374.0	-	-	134.5	-	-	153.2	-	-	158.7	-	-	163.1	-	96.3	374.0
377.3	-	-	129.6	-	-	149.0	-	-	154.5	-	-	159.7	-	92.4	377.3
383.9	-	-	119.8	-	-	140.5	-	-	146.2	-	-	152.7	-	84.4	383.9
387.1	-	-	114.9	-	-	136.3	-	-	142.0	-	-	149.2	-	-	387.1
400.3	-	-	95.2	-	-	119.7	-	-	125.7	-	-	134.9	-	-	400.3
406.8	-	-	85.3	-	-	111.6	-	-	117.9	-	-	127.0	-	-	406.8
413.4	-	-	-	-	-	103.4	-	-	110.0	-	-	119.0	-	-	413.4
426.5	-	-	-	-	-	87.1	-	-	94.9	-	-	104.8	-	-	426.5
439.6	-	-	-	-	-	70.4	-	-	79.7	-	-	90.7	-	-	439.6
446.2	-	-	-	-	-	61.9	-	-	72.2	-	-	83.7	-	-	446.2
452.8	-	-	-	-	-	-	-	-	64.6	-	-	76.7	-	-	452.8
462.6	-	-	-	-	-	-	-	-	52.9	-	-	66.1	-	-	462.6
465.9	-	-	-	-	-	-	-	-	-	-	-	62.6	-	-	465.9
479.0	-	-	-	-	-	-	-	-	-	-	-	48.3	-	-	479.0
482.3	-	-	-	-	-	-	-	-	-	-	-	44.5	-	-	482.3
492.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	492.1
502.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	502.0

0 lb
242,500 lb
374,800 lb
595,300 lb
815,800 lb
992,100 lb
1,191,000 lb

\* Main boom angle 87°

# Operation

# SWSL\_2, SFSL\_2

463 klb +  44.1 klb ZB  49.2-78.7 ft  31.5 ft  32.2 ft/s 360° ASME B30.5															
170.6 ft															
118.1 ft		137.8 ft		157.5 ft		196.9 ft		236.2 ft							
SWSL_2		SFSL_2		SWSL_2		SFSL_2		SWSL_2		SFSL_2		SWSL_2		SFSL_2	
0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb	
87°/85°		15°		87°/85°		15°		87°/85°		15°		87°/85°		15°	
ft	1,000 lb												ft		
52.5	679.0*	1413.2*	-	-	-	-	-	-	-	-	-	-	-	-	52.5
55.8	639.3*	1384.5*	-	-	-	-	-	-	-	-	-	-	-	-	55.8
59.1	604.1*	1355.8*	-	586.4*	1232.4*	-	564.4*	1131.0*	-	-	-	-	-	-	59.1
65.6	524.7	1428.6	-	509.3	1302.9	-	509.3*	1097.9*	-	-	-	-	-	-	65.6
68.9	500.4	1405.4	-	485.0	1284.2	-	486.1*	1081.4*	-	454.2*	897.3*	-	-	-	68.9
72.2	476.2	1382.3	1377.9	460.8	1267.7	-	445.3	1166.2	-	434.3*	888.5*	-	-	-	72.2
78.7	434.3	1287.5	1362.5	421.1	1225.8	1217.0	407.9	1131.0	-	396.8*	870.8*	-	374.8*	712.1*	78.7
85.3	399.0	1159.6	1322.8	388.0	1166.2	1208.1	374.8	1097.9	1084.7	350.5	919.3	-	343.9*	701.1*	85.3
91.9	370.4	1038.4	1219.2	359.4	1058.2	1175.1	346.1	1058.2	1082.5	324.1	899.5	-	304.2	727.5	91.9
98.4	337.3	939.2	1126.6	332.9	954.6	1131.0	321.9	954.6	1051.6	299.8	877.4	864.2	280.0	723.1	98.4
111.5	282.2	784.8	976.6	280.0	793.7	981.1	273.4	793.7	976.6	255.7	795.9	844.4	242.5	709.9	111.5
124.7	240.3	672.4	855.4	238.1	676.8	859.8	231.5	676.8	864.2	216.1	676.8	787.1	206.1	674.6	124.7
131.2	224.3	599.7	806.9	222.1	630.5	811.3	215.0	631.6	815.7	199.5	630.5	757.3	190.7	629.4	131.2
137.8	208.3	526.9	758.4	206.1	584.2	762.8	198.4	586.4	767.2	183.0	584.2	727.5	175.3	584.2	137.8
150.9	-	-	679.0	180.8	498.2	681.2	172.0	513.7	685.6	156.5	511.5	676.8	148.8	511.5	150.9
157.5	-	-	643.8	169.8	440.9	647.1	161.5	480.6	650.4	145.5	482.8	648.2	137.8	481.7	157.5
164.0	-	-	608.5	-	-	612.9	151.0	447.5	615.1	134.5	454.2	619.5	126.8	451.9	164.0
170.6	-	-	578.7	-	-	583.1	142.2	404.9	585.3	125.7	429.9	589.7	117.8	427.7	170.6
173.9	-	-	563.8	-	-	568.2	137.8	383.6	570.4	121.3	417.8	574.9	113.4	415.6	173.9
177.2	-	-	549.0	-	-	553.4	-	-	555.6	116.8	405.7	560.0	108.9	403.4	177.2
190.3	-	-	498.2	-	-	500.4	-	-	504.9	102.5	363.8	507.1	93.7	363.8	190.3
203.4	-	-	451.9	-	-	456.4	-	-	458.6	90.6	321.9	463.0	80.9	328.5	203.4
206.7	-	-	443.1	-	-	445.3	-	-	447.5	88.3	308.6	451.9	78.2	320.8	206.7
213.3	-	-	424.0	-	-	426.2	-	-	428.4	83.6	282.2	432.8	72.8	305.3	213.3
216.5	-	-	414.5	-	-	416.7	-	-	418.9	-	-	423.3	70.1	297.6	216.5
229.7	-	-	370.4	-	-	381.4	-	-	383.6	-	-	388.0	60.8	271.2	229.7
242.8	-	-	326.3	-	-	346.1	-	-	352.7	-	-	357.1	53.4	235.9	242.8
246.1	-	-	315.3	-	-	335.7	-	-	345.0	-	-	350.0	51.9	226.0	246.1
252.6	-	-	293.2	-	-	314.7	-	-	329.6	-	-	335.7	48.9	206.1	252.6
255.9	-	-	282.2	-	-	304.2	-	-	321.9	-	-	328.5	-	-	255.9
269.0	-	-	239.9	-	-	267.9	-	-	285.3	-	-	303.4	-	-	269.0
272.3	-	-	229.3	-	-	258.5	-	-	276.0	-	-	297.2	-	-	272.3
282.2	-	-	-	-	-	230.2	-	-	250.2	-	-	276.3	-	-	282.2
292.0	-	-	-	-	-	201.7	-	-	225.4	-	-	254.3	-	-	292.0
295.3	-	-	-	-	-	-	-	-	217.2	-	-	246.9	-	-	295.3
308.4	-	-	-	-	-	-	-	-	184.1	-	-	219.0	-	-	308.4
321.5	-	-	-	-	-	-	-	-	-	-	-	191.8	-	-	321.5
334.6	-	-	-	-	-	-	-	-	-	-	-	165.3	-	-	334.6
347.8	-	-	-	-	-	-	-	-	-	-	-	138.9	-	-	347.8
360.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	360.9
374.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	374.0
387.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	387.1

0 lb  
 242,500 lb  
 374,800 lb  
 595,300 lb  
 815,800 lb  
 992,100 lb  
 1,191,000 lb

\* Main boom angle 87°

# Operation

# SWSL\_2, SFSL\_2

463 klb + 44.1 klb ZB														49.2-78.7 ft		31.5 ft		32.2 ft/s		360°		ASME B30.5			
170.6 ft																									
275.6 ft			315.0 ft			334.6 ft			354.3 ft			374.0 ft													
SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2								
0 lb		0-1,191 klb	0 lb		0-1,191 klb	0 lb		0-1,191 klb	0 lb		0-1,191 klb	0 lb		0-1,191 klb	0 lb		0-1,191 klb								
87°/85°		15°	87°/85°		15°	87°/85°		15°	87°/85°		15°	87°/85°		15°	87°/85°		15°								
ft														1,000 lb										ft	
85.3	324.1*	566.6*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85.3				
91.9	299.8*	560.0*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91.9				
95.1	288.8*	557.8*	-	273.4*	436.5*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95.1				
98.4	277.8*	555.6*	-	264.6*	434.3*	-	253.5*	385.8*	-	-	-	-	-	-	-	-	-	-	-	-	98.4				
105.0	246.9	565.1	-	246.9*	431.0*	-	236.4*	381.4*	-	231.5*	332.9*	-	-	-	-	-	-	-	-	-	105.0				
108.3	238.1	563.6	-	238.1*	429.4*	-	227.9*	379.2*	-	223.2*	331.8*	-	215.0*	293.2*	-	-	-	-	-	-	108.3				
111.5	229.3	562.2	-	216.1	436.5*	-	219.4*	377.0*	-	215.0*	330.7*	-	207.2*	291.0*	-	-	-	-	-	-	111.5				
124.7	199.5	555.6	549.0	187.4	429.9	-	179.7	379.2	-	176.4	328.5	-	179.7*	284.4*	-	-	-	-	-	-	124.7				
137.8	166.4	549.0	549.0	162.0	423.3	418.9	156.5	372.6	-	152.1	324.1	-	146.6	282.2	-	-	-	-	-	-	137.8				
144.4	154.3	528.0	549.0	149.4	420.0	418.9	145.0	369.3	368.2	140.5	321.9	-	136.1	280.0	-	-	-	-	-	-	144.4				
150.9	142.2	507.1	549.0	136.7	416.7	418.9	133.4	366.0	368.2	129.0	319.7	313.1	125.7	277.8	-	-	-	-	-	-	150.9				
157.5	131.2	479.5	531.3	126.2	412.3	417.8	122.9	362.7	366.0	119.0	316.4	312.0	115.1	275.6	273.4	-	-	-	-	-	157.5				
164.0	120.2	451.9	513.7	115.7	407.9	416.7	112.4	359.4	363.8	109.1	313.1	310.9	104.5	273.4	273.4	-	-	-	-	-	164.0				
177.2	102.5	403.4	480.6	98.8	399.0	410.1	94.4	352.7	359.4	91.5	306.4	306.4	86.9	266.8	269.0	-	-	-	-	-	177.2				
190.3	87.3	361.6	451.9	83.8	361.6	401.2	79.1	341.7	354.9	76.3	299.8	299.8	73.2	262.4	262.4	-	-	-	-	-	190.3				
203.4	74.5	326.3	425.5	70.5	326.3	388.0	66.6	324.1	346.1	63.5	293.2	293.2	60.8	255.7	257.9	-	-	-	-	-	203.4				
216.5	63.5	295.4	399.0	59.3	295.4	370.4	55.8	293.2	339.5	52.9	284.4	286.6	49.8	249.1	251.3	-	-	-	-	-	216.5				
229.7	53.8	269.0	374.8	50.0	269.0	346.1	45.9	266.8	326.3	43.2	266.8	280.0	39.9	242.5	244.7	-	-	-	-	-	229.7				
242.8	45.6	246.9	352.7	41.4	246.9	326.3	37.3	244.7	313.1	34.8	246.9	271.2	31.3	231.5	238.1	-	-	-	-	-	242.8				
255.9	38.4	227.1	332.9	34.0	224.9	308.6	29.8	222.7	295.4	27.1	227.1	264.6	24.0	222.7	231.5	-	-	-	-	-	255.9				
269.0	32.4	206.1	307.2	27.3	207.2	291.0	23.4	205.0	279.5	20.5	208.3	257.9	17.4	203.9	226.2	-	-	-	-	-	269.0				
282.2	27.3	179.7	284.4	21.6	191.8	274.8	17.4	188.5	263.8	20.9*	191.8	249.9	17.6*	187.4	219.7	-	-	-	-	-	282.2				
285.4	26.3	172.5	278.9	20.4	187.9	271.2	16.1	185.2	260.1	19.6*	187.9	248.0	16.3*	183.8	218.3	-	-	-	-	-	285.4				
288.7	25.4	165.3	273.4	19.2	184.1	267.5	20.8*	181.5	256.5	18.2*	184.1	246.2	-	180.2	216.8	-	-	-	-	-	288.7				
295.3	-	-	262.4	16.8	176.4	260.1	18.1*	174.2	249.1	15.4*	176.4	242.5	-	173.1	213.8	-	-	-	-	-	295.3				
301.8	-	-	253.5	20.5*	168.7	253.5	15.7*	167.0	242.5	-	169.8	236.6	-	165.9	210.9	-	-	-	-	-	301.8				
308.4	-	-	244.7	18.3*	159.8	246.9	-	159.8	235.9	-	163.1	230.8	-	158.7	208.0	-	-	-	-	-	308.4				
318.2	-	-	231.5	15.7*	145.0	236.1	-	150.7	227.1	-	154.0	222.3	-	149.6	203.4	-	-	-	-	-	318.2				
321.5	-	-	227.1	-	140.0	231.9	-	147.7	223.8	-	151.0	219.7	-	146.6	201.7	-	-	-	-	-	321.5				
328.1	-	-	218.3	-	129.0	223.4	-	138.9	218.3	-	145.0	214.2	-	141.5	198.4	-	-	-	-	-	328.1				
334.6	-	-	209.4	-	-	215.0	-	130.1	212.7	-	138.9	208.3	-	135.6	195.1	-	-	-	-	-	334.6				
341.2	-	-	199.2	-	-	206.9	-	120.7	206.1	-	133.0	203.6	-	130.6	191.1	-	-	-	-	-	341.2				
347.8	-	-	188.9	-	-	198.8	-	111.3	199.5	-	125.7	198.8	-	125.7	187.0	-	-	-	-	-	347.8				
360.9	-	-	168.7	-	-	182.6	-	-	185.6	-	108.7	187.8	-	114.6	178.6	-	-	-	-	-	360.9				
364.2	-	-	163.7	-	-	178.6	-	-	181.9	-	104.3	184.6	-	110.9	176.4	-	-	-	-	-	364.2				
374.0	-	-	148.8	-	-	166.4	-	-	170.9	-	-	175.3	-	99.9	169.8	-	-	-	-	-	374.0				
377.3	-	-	144.4	-	-	162.0	-	-	166.6	-	-	172.0	-	96.0	167.0	-	-	-	-	-	377.3				
383.9	-	-	135.1	-	-	153.2	-	-	158.2	-	-	165.3	-	88.4	161.5	-	-	-	-	-	383.9				
387.1	-	-	130.5	-	-	148.8	-	-	154.0	-	-	162.0	-	-	158.7	-	-	-	-	-	387.1				
400.3	-	-	111.8	-	-	132.5	-	-	137.1	-	-	146.6	-	-	146.8	-	-	-	-	-	400.3				
413.4	-	-	93.0	-	-	115.7	-	-	121.3	-	-	132.3	-	-	134.5	-	-	-	-	-	413.4				
423.2	-	-	78.9	-	-	104.2	-	-	110.2	-	-	121.0	-	-	124.0	-	-	-	-	-	423.2				
426.5	-	-	-	-	-	100.3	-	-	106.6	-	-	117.3	-	-	120.5	-	-	-	-	-	426.5				
439.6	-	-	-	-	-	84.7	-	-	91.9	-	-	102.8	-	-	106.6	-	-	-	-	-	439.6				
452.8	-	-	-	-	-	69.0	-	-	77.4	-	-	88.8	-	-	92.8	-	-	-	-	-	452.8				
462.6	-	-	-	-	-	56.7	-	-	66.4	-	-	78.7	-	-	83.1	-	-	-	-	-	462.6				
465.9	-	-	-	-	-	-	-	-	62.7	-	-	75.3	-	-	79.9	-	-	-	-	-	465.9				
479.0	-	-	-	-	-	-	-	-	47.8	-	-	61.7	-	-	67.2	-	-	-	-	-	479.0				
482.3	-	-	-	-	-	-	-	-	43.9	-	-	58.2	-	-	64.0	-	-	-	-	-	482.3				
492.1	-	-	-	-	-	-	-	-	-	-	-	47.6	-	-	54.5	-	-	-	-	-	492.1				
498.7	-	-	-	-	-	-	-	-	-	-	-	40.6	-	-	48.1	-	-	-	-	-	498.7				
518.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28.4	-	-	-	-	-	518.4				

0 lb 242,500 lb 374,800 lb 595,300 lb 815,800 lb 992,100 lb 1,191,000 lb

\* Main boom angle 87°

# Operation

# SWSL\_2, SFSL\_2

463 klb + 44.1 klb ZB 49.2-78.7 ft 31.5 ft 32.2 ft/s 360° ASME B30.5															
190.3 ft															
118.1 ft			137.8 ft			157.5 ft			196.9 ft			236.2 ft			
SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	
0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb	
87°/85°		15°		87°/85°		15°		87°/85°		15°		87°/85°		15°	
ft	1,000 lb												ft		
52.5	652.6*	1296.3*	-	-	-	-	-	-	-	-	-	-	-	-	52.5
55.8	615.1*	1274.3*	-	595.2	1148.6*	-	-	-	-	-	-	-	-	-	55.8
59.1	582.0*	1250.0*	-	564.4	1133.2*	-	-	-	-	-	-	-	-	-	59.1
62.3	531.3	1358.0	-	535.7	1119.9*	-	515.9	1025.2*	-	-	-	-	-	-	62.3
65.6	504.9	1325.0	-	509.3	1104.5*	-	491.6	1011.9*	-	-	-	-	-	-	65.6
68.9	481.7	1304.0	-	465.2	1194.9	-	469.6	998.7*	-	438.7	828.9*	-	-	-	68.9
72.2	458.6	1283.1	1256.6	443.1	1170.7	-	427.7	1078.1	-	418.9	820.1*	-	-	-	72.2
78.7	418.9	1232.4	1256.6	405.7	1139.8	1113.3	392.4	1058.2	-	383.6	804.7*	-	361.6	663.6*	78.7
85.3	385.8	1172.9	1256.6	374.8	1102.3	1113.3	359.4	1020.7	994.3	337.3	851.0	-	332.9	652.6*	85.3
91.9	357.1	1069.2	1214.7	346.1	1064.8	1113.3	332.9	992.1	994.3	310.9	842.2	-	291.0	679.0	91.9
98.4	330.7	963.4	1122.2	321.9	987.7	1113.3	308.6	961.2	994.3	288.8	831.1	798.1	269.0	674.6	98.4
111.5	280.0	802.5	972.2	275.6	822.3	976.6	264.6	828.9	978.9	249.1	782.6	795.9	233.7	663.6	111.5
114.8	269.5	773.3	940.3	265.1	792.0	944.7	254.1	797.5	946.9	239.5	763.4	795.9	225.7	657.0	114.8
124.7	238.1	685.6	851.0	233.7	701.1	855.4	222.7	703.3	859.8	210.5	705.5	795.9	201.7	641.5	124.7
131.2	222.1	618.4	802.5	217.7	653.7	806.9	207.2	655.9	810.2	194.6	657.0	774.9	186.3	621.7	131.2
137.8	206.1	551.2	754.0	201.7	606.3	758.4	191.8	608.5	760.6	178.6	608.5	754.0	170.9	606.3	137.8
150.9	-	-	672.4	176.4	513.7	676.8	165.3	533.5	679.0	152.1	533.5	683.4	145.5	529.1	150.9
157.5	-	-	638.2	165.3	458.6	642.6	154.9	496.0	644.9	141.6	502.7	649.3	134.5	498.2	157.5
164.0	-	-	604.1	-	-	608.5	144.4	458.6	610.7	131.2	471.8	615.1	123.5	467.4	164.0
170.6	-	-	574.3	-	-	578.7	136.1	416.7	579.8	122.4	446.4	584.2	114.8	442.0	170.6
177.2	-	-	544.5	-	-	549.0	127.9	374.8	549.0	113.5	421.1	553.4	106.0	416.7	177.2
190.3	-	-	491.6	-	-	496.0	-	-	498.2	99.4	377.0	502.7	91.3	374.8	190.3
203.4	-	-	447.5	-	-	451.9	-	-	451.9	87.3	330.7	456.4	78.5	337.3	203.4
210.0	-	-	427.7	-	-	432.1	-	-	432.1	82.8	303.1	436.5	73.1	321.9	210.0
216.5	-	-	407.9	-	-	412.3	-	-	412.3	78.3	275.6	416.7	67.7	306.4	216.5
229.7	-	-	374.8	-	-	377.0	-	-	377.0	-	-	381.4	58.6	275.6	229.7
242.8	-	-	343.9	-	-	346.1	-	-	346.1	-	-	350.5	51.1	240.3	242.8
246.1	-	-	336.2	-	-	338.8	-	-	339.5	-	-	343.2	49.6	230.8	246.1
252.6	-	-	318.6	-	-	324.1	-	-	326.3	-	-	328.5	46.5	211.6	252.6
255.9	-	-	308.6	-	-	317.5	-	-	319.7	-	-	321.9	-	-	255.9
269.0	-	-	270.4	-	-	288.1	-	-	294.7	-	-	296.9	-	-	269.0
282.2	-	-	232.0	-	-	255.7	-	-	268.2	-	-	274.1	-	-	282.2
288.7	-	-	212.7	-	-	238.1	-	-	254.3	-	-	263.8	-	-	288.7
295.3	-	-	-	-	-	220.5	-	-	240.3	-	-	253.5	-	-	295.3
308.4	-	-	-	-	-	187.4	-	-	209.4	-	-	233.0	-	-	308.4
321.5	-	-	-	-	-	-	-	-	178.6	-	-	209.8	-	-	321.5
328.1	-	-	-	-	-	-	-	-	163.1	-	-	196.9	-	-	328.1
334.6	-	-	-	-	-	-	-	-	-	-	-	184.1	-	-	334.6
347.8	-	-	-	-	-	-	-	-	-	-	-	159.1	-	-	347.8
360.9	-	-	-	-	-	-	-	-	-	-	-	134.1	-	-	360.9
364.2	-	-	-	-	-	-	-	-	-	-	-	127.9	-	-	364.2
374.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	374.0
387.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	387.1
400.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	400.3
403.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	403.5

0 lb 242,500 lb 374,800 lb 595,300 lb 815,800 lb 992,100 lb 1,191,000 lb

\* Main boom angle 87°

# Operation

# SWSL\_2, SFSL\_2

463 klb +  44.1 klb ZB  49.2-78.7 ft  31.5 ft  32.2 ft/s 360° ASME B30.5															
190.3 ft															
275.6 ft			315.0 ft			334.6 ft			354.3 ft			374.0 ft			
SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	
0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb	
87°/85°		15°		87°/85°		15°		87°/85°		15°		87°/85°		15°	
ft	1,000 lb												ft		
88.6	302.0*	529.1*	-	-	-	-	-	-	-	-	-	-	-	88.6	
91.9	288.8*	526.9*	-	-	-	-	-	-	-	-	-	-	-	91.9	
95.1	278.9*	524.7*	-	264.6*	414.5*	-	-	-	-	-	-	-	-	95.1	
98.4	269.0*	522.5*	-	253.5*	412.3*	-	-	-	-	-	-	-	-	98.4	
101.7	259.6*	518.6*	-	245.3*	410.6*	-	235.9*	366.0*	-	-	-	-	-	101.7	
105.0	235.9*	533.5*	-	237.0*	409.0*	-	227.8*	363.8*	-	222.7*	319.7*	-	-	105.0	
108.3	227.6*	532.4*	-	228.7*	407.3*	-	219.7*	361.6*	-	215.0*	317.5*	-	206.1*	280.0*	108.3
111.5	219.4*	531.3*	-	220.5*	405.7*	-	211.6*	359.4*	-	207.2*	315.3*	-	199.5*	280.0*	111.5
124.7	190.7*	524.7*	-	179.7*	410.1*	-	172.0*	361.6*	-	167.6*	313.1*	-	173.1*	273.4*	124.7
128.0	183.8*	523.6*	518.1*	173.6*	408.4*	-	166.4*	359.9*	-	162.3*	312.0*	-	154.3*	275.6*	128.0
137.8	163.1*	520.3*	518.1*	155.4*	403.4*	-	149.9*	354.9*	-	146.6*	308.6*	-	138.9*	271.2*	137.8
141.1	157.1*	515.9*	518.1*	149.1*	401.8*	399.0*	143.9*	353.8*	-	141.6*	307.5*	-	134.2*	270.1*	141.1
147.6	145.0*	507.1*	518.1*	136.4*	398.5*	399.0*	131.7*	351.6*	348.3*	131.7*	305.3*	-	124.8*	267.9*	147.6
150.9	138.9*	502.7*	518.1*	130.1*	396.8*	399.0*	125.7*	350.5*	348.3*	126.8*	304.2*	-	120.2*	266.8*	150.9
154.2	133.7*	493.3*	517.5*	125.1*	394.6*	399.0*	120.6*	348.9*	347.8*	121.9*	302.6*	299.8*	114.9*	265.7*	154.2
160.8	123.2*	479.0*	516.4*	115.0*	390.2*	399.0*	110.5*	345.6*	346.7*	112.1*	299.3*	299.8*	104.3*	263.5*	160.8
164.0	117.9*	471.8*	515.9*	110.0*	388.0*	399.0*	105.4*	343.9*	346.1*	107.1*	297.6*	299.8*	99.0*	262.4*	164.0
177.2	100.1*	421.1*	498.2*	93.5*	381.4*	394.6*	89.3*	337.3*	343.9*	89.9*	291.0*	295.4*	81.8*	257.9*	177.2
190.3	85.1*	377.0*	469.6*	78.7*	366.0*	385.8*	75.0*	330.7*	339.5*	75.0*	284.4*	288.8*	68.1*	251.3*	190.3
203.4	72.8*	339.5*	443.1*	65.9*	337.3*	379.2*	62.2*	324.1*	332.9*	62.4*	277.8*	284.4*	56.2*	246.9*	203.4
216.5	61.7*	308.6*	418.9*	54.9*	306.4*	370.4*	50.9*	304.2*	326.3*	51.8*	271.2*	277.8*	45.4*	240.3*	216.5
229.7	52.2*	282.2*	388.0*	45.6*	280.0*	357.1*	41.7*	277.8*	319.7*	42.5*	262.4*	271.2*	35.9*	233.7*	229.7
242.8	44.1*	257.9*	354.9*	37.5*	255.7*	343.9*	33.5*	253.5*	313.1*	34.2*	251.3*	264.6*	27.6*	229.3*	242.8
255.9	37.0*	235.9*	326.3*	30.2*	233.7*	326.3*	26.2*	231.5*	304.2*	26.7*	233.7*	257.9*	20.3*	222.7*	255.9
269.0	30.9*	211.6*	301.2*	23.6*	216.1*	305.3*	19.6*	213.8*	293.2*	20.1*	215.0*	252.4*	20.9*	210.5*	269.0
278.9	27.1*	191.8*	283.7*	19.5*	202.8*	290.3*	22.2*	200.6*	282.6*	15.9*	202.5*	247.3*	16.5*	198.1*	278.9
282.2	25.8*	185.2*	278.5*	18.1*	198.4*	285.1*	20.7*	196.2*	278.5*	21.4*	198.4*	245.4*	-	194.0*	282.2
285.4	24.8*	178.2*	273.4*	16.9*	194.8*	280.0*	19.5*	192.4*	274.5*	20.0*	194.6*	243.6*	-	190.1*	285.4
292.0	22.9*	164.2*	263.1*	21.3*	187.7*	269.7*	16.9*	184.6*	266.4*	17.3*	186.8*	239.9*	-	182.4*	292.0
295.3	-	-	257.9*	20.1*	184.1*	264.6*	15.7*	180.8*	262.4*	15.9*	183.0*	238.1*	-	178.6*	295.3
308.4	-	-	238.8*	15.7*	164.2*	245.4*	-	167.6*	243.2*	-	168.7*	232.2*	-	164.2*	308.4
321.5	-	-	220.7*	-	143.3*	227.1*	-	151.0*	226.3*	-	155.4*	224.9*	-	152.1*	321.5
328.1	-	-	212.3*	-	133.4*	218.3*	-	142.2*	218.3*	-	149.4*	220.5*	-	146.2*	328.1
334.6	-	-	203.9*	-	-	209.4*	-	133.4*	209.4*	-	143.3*	212.7*	-	140.0*	334.6
341.2	-	-	196.6*	-	-	202.1*	-	124.2*	202.1*	-	135.6*	205.4*	-	135.0*	341.2
347.8	-	-	189.2*	-	-	194.7*	-	114.6*	194.7*	-	127.9*	198.0*	-	130.1*	347.8
360.9	-	-	174.9*	-	-	180.8*	-	-	180.4*	-	111.3*	183.7*	-	115.7*	360.9
367.5	-	-	167.9*	-	-	174.2*	-	-	173.4*	-	102.3*	176.7*	-	108.9*	367.5
374.0	-	-	160.9*	-	-	167.6*	-	-	166.4*	-	-	169.8*	-	102.1*	374.0
380.6	-	-	152.1*	-	-	160.9*	-	-	160.6*	-	-	163.6*	-	94.4*	380.6
387.1	-	-	142.7*	-	-	154.7*	-	-	154.7*	-	-	157.4*	-	86.6*	387.1
400.3	-	-	124.7*	-	-	141.1*	-	-	142.6*	-	-	146.6*	-	-	400.3
413.4	-	-	107.4*	-	-	125.7*	-	-	130.1*	-	-	135.6*	-	-	413.4
426.5	-	-	89.7*	-	-	110.5*	-	-	115.7*	-	-	123.1*	-	-	426.5
439.6	-	-	71.9*	-	-	95.5*	-	-	101.3*	-	-	110.1*	-	-	439.6
452.8	-	-	-	-	-	80.5*	-	-	87.1*	-	-	96.6*	-	-	452.8
465.9	-	-	-	-	-	65.7*	-	-	73.3*	-	-	83.3*	-	-	465.9
479.0	-	-	-	-	-	50.0*	-	-	59.3*	-	-	70.3*	-	-	479.0
492.1	-	-	-	-	-	-	-	-	45.2*	-	-	57.3*	-	-	492.1
498.7	-	-	-	-	-	-	-	-	37.9*	-	-	50.7*	-	-	498.7
518.4	-	-	-	-	-	-	-	-	-	-	-	30.4*	-	-	518.4
531.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	531.5
534.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	534.8

0 lb   242,500 lb   374,800 lb   595,300 lb   815,800 lb   992,100 lb   1,191,000 lb

\* Main boom angle 87°

# Operation

# SWSL\_2, SFSL\_2

















463 klb +  44.1 klb ZB  49.2-78.7 ft  31.5 ft  32.2 ft/s 360° ASME B30.5															
210.0 ft															
118.1 ft			137.8 ft			157.5 ft			196.9 ft			236.2 ft			
SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	
0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb	
87°/85°		15°		87°/85°		15°		87°/85°		15°		87°/85°		15°	
ft	1,000 lb												ft		
52.5	628.3*	1183.9*	-	-	-	-	-	-	-	-	-	-	-	52.5	
59.1	562.2*	1144.2*	-	544.5	1040.6*	-	500.4	941.4*	-	-	-	-	-	59.1	
62.3	533.5*	1124.4*	-	518.1	1027.4*	-	500.4	941.4*	-	-	-	-	-	62.3	
65.6	485.0	1228.0	-	491.6	1014.1*	-	476.2	930.4*	-	-	-	-	-	65.6	
72.2	440.9	1179.5	-	427.7	1084.7	-	432.1	906.1*	-	405.7	756.2*	-	-	72.2	
75.5	422.2	1160.7	1155.2	409.0	1071.4	-	394.6	978.9	-	388.0	749.6*	-	-	75.5	
78.7	403.4	1142.0	1155.2	390.2	1058.2	-	377.0	970.0	-	370.4	743.0*	-	348.3	78.7	
82.0	388.0	1116.6	1155.2	374.8	1035.1	1025.2	361.6	962.3	-	356.0	735.2*	-	335.1	82.0	
85.3	372.6	1097.9	1155.2	359.4	1020.7	1025.2	346.1	954.6	-	324.1	782.6	-	321.9	85.3	
88.6	358.3	1078.1	1155.2	346.1	1005.3	1025.2	334.0	928.1	919.3	312.0	779.3	-	309.7	88.6	
91.9	343.9	1058.2	1155.2	332.9	989.9	1025.2	321.9	917.1	917.1	299.8	776.0	-	297.6	91.9	
98.4	319.7	992.1	1117.7	308.6	954.6	1025.2	297.6	895.1	917.1	277.8	767.2	-	257.9	98.4	
101.7	308.6	949.6	1078.1	298.2	926.5	1025.2	288.3	878.0	917.1	268.4	755.6	740.8	249.7	101.7	
111.5	275.6	822.3	965.6	266.8	842.2	972.2	260.1	840.0	917.1	240.3	729.7	738.5	224.9	111.5	
114.8	265.1	792.0	934.8	256.8	810.8	940.3	249.7	810.8	913.8	231.5	722.0	738.5	217.7	114.8	
124.7	233.7	701.1	846.6	227.1	716.5	851.0	218.3	723.1	853.2	205.0	698.9	738.5	196.2	124.7	
134.5	209.7	606.8	772.2	202.3	645.4	778.2	194.3	647.1	780.4	181.1	642.6	738.5	173.9	134.5	
137.8	201.7	575.4	747.4	194.0	621.7	754.0	186.3	621.7	756.2	173.1	623.9	738.5	166.4	137.8	
141.1	195.1	535.7	727.5	187.7	599.1	733.6	180.0	602.4	735.8	166.7	604.1	723.7	160.1	141.1	
150.9	-	-	668.0	168.7	531.3	672.4	160.9	544.5	674.6	147.7	544.5	679.0	141.1	150.9	
160.8	-	-	615.1	153.2	447.5	619.5	145.2	490.0	621.7	132.8	496.6	627.8	125.4	160.8	
164.0	-	-	597.5	-	-	601.9	140.0	471.8	604.1	127.9	480.6	610.7	120.2	164.0	
170.6	-	-	567.7	-	-	572.1	131.7	429.9	574.3	119.0	455.3	579.8	111.6	170.6	
177.2	-	-	537.9	-	-	542.3	123.5	388.0	544.5	110.2	429.9	549.0	103.0	177.2	
180.4	-	-	524.7	-	-	529.1	120.2	366.0	531.3	106.6	418.9	536.3	99.4	180.4	
190.3	-	-	485.0	-	-	489.4	-	-	491.6	95.9	385.8	498.2	88.6	190.3	
203.4	-	-	440.9	-	-	445.3	-	-	447.5	84.2	339.5	451.9	76.1	203.4	
210.0	-	-	421.1	-	-	425.5	-	-	427.7	79.5	313.1	432.1	70.8	210.0	
216.5	-	-	401.2	-	-	405.7	-	-	407.9	74.7	286.6	412.3	65.5	216.5	
229.7	-	-	366.0	-	-	370.4	-	-	372.6	-	-	377.0	56.4	229.7	
242.8	-	-	336.9	-	-	339.1	-	-	341.3	-	-	343.9	48.9	242.8	
246.1	-	-	329.8	-	-	332.0	-	-	334.2	-	-	337.3	47.4	246.1	
255.9	-	-	308.6	-	-	310.9	-	-	313.1	-	-	317.5	42.8	255.9	
269.0	-	-	283.7	-	-	287.3	-	-	288.1	-	-	292.5	-	269.0	
282.2	-	-	253.9	-	-	263.1	-	-	265.3	-	-	269.0	-	282.2	
295.3	-	-	219.4	-	-	238.1	-	-	244.7	-	-	246.9	-	295.3	
305.1	-	-	194.0	-	-	215.2	-	-	227.4	-	-	231.5	-	305.1	
308.4	-	-	-	-	-	207.8	-	-	221.0	-	-	227.4	-	308.4	
321.5	-	-	-	-	-	177.5	-	-	194.7	-	-	210.9	-	321.5	
324.8	-	-	-	-	-	169.8	-	-	187.9	-	-	206.7	-	324.8	
334.6	-	-	-	-	-	-	-	-	167.6	-	-	194.0	-	334.6	
344.5	-	-	-	-	-	-	-	-	146.6	-	-	176.9	-	344.5	
347.8	-	-	-	-	-	-	-	-	-	-	-	171.2	-	347.8	
360.9	-	-	-	-	-	-	-	-	-	-	-	148.1	-	360.9	
374.0	-	-	-	-	-	-	-	-	-	-	-	125.7	-	374.0	
380.6	-	-	-	-	-	-	-	-	-	-	-	113.5	-	380.6	
387.1	-	-	-	-	-	-	-	-	-	-	-	-	-	387.1	
400.3	-	-	-	-	-	-	-	-	-	-	-	-	-	400.3	
413.4	-	-	-	-	-	-	-	-	-	-	-	-	-	413.4	
419.9	-	-	-	-	-	-	-	-	-	-	-	-	-	419.9	

0 lb   242,500 lb   374,800 lb   595,300 lb   815,800 lb   992,100 lb   1,191,000 lb

\* Main boom angle 87°

# Operation

# SWSL\_2, SFSL\_2

     														
210.0 ft														
275.6 ft			315.0 ft			334.6 ft			354.3 ft			374.0 ft		
SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2
0 lb		0-1,191 klb	0 lb		0-1,191 klb	0 lb		0-1,191 klb	0 lb		0-1,191 klb	0 lb		0-1,191 klb
														
1,000 lb														
ft													ft	
88.6	291.0*	493.8*	-	-	-	-	-	-	-	-	-	-	-	88.6
91.9	280.0*	491.6*	-	-	-	-	-	-	-	-	-	-	-	91.9
98.4	260.1*	487.2*	-	244.7*	390.2*	-	-	-	-	-	-	-	-	98.4
101.7	251.3*	483.9*	-	236.7*	388.6*	-	227.1*	346.1*	-	-	-	-	-	101.7
105.0	224.9	500.4	-	228.7*	386.9*	-	219.4*	344.7*	-	215.0*	302.0*	-	-	105.0
111.5	209.4	498.2	-	212.7*	383.6*	-	203.9*	341.7*	-	199.5*	299.8*	-	191.8*	111.5
124.7	183.0	493.8	-	170.9	388.0	-	163.1	343.9	-	159.8	299.8	-	166.4*	124.7
128.0	176.1	491.6	480.6	165.6	386.4	-	157.9	342.3	-	154.6	298.7	-	161.2*	128.0
137.8	155.4	485.0	480.6	149.9	381.4	-	142.2	337.3	-	138.9	295.4	-	132.3	137.8
141.1	149.4	482.8	480.6	144.1	379.7	374.8	136.7	335.7	-	134.2	294.3	-	127.0	141.1
147.6	137.2	478.4	480.6	132.6	376.4	374.8	125.7	332.3	328.5	124.8	292.1	-	116.6	147.6
150.9	131.2	476.2	480.6	126.8	374.8	374.8	120.2	330.7	328.5	120.2	291.0	-	111.3	150.9
154.2	126.2	471.8	480.6	121.9	373.1	374.8	115.2	329.6	328.5	115.1	289.4	286.6	106.8	154.2
160.8	116.3	463.0	480.6	112.1	369.8	374.8	105.4	327.4	328.5	104.9	286.0	286.6	97.8	160.8
164.0	111.3	458.6	480.6	107.1	368.2	374.8	100.5	326.3	328.5	99.9	284.4	286.6	93.3	164.0
177.2	94.6	429.9	480.6	91.3	361.6	374.8	83.6	319.7	328.5	83.1	280.0	282.2	77.4	177.2
190.3	79.8	385.8	474.0	76.7	352.7	368.2	69.0	315.3	324.1	69.9	273.4	277.8	63.1	190.3
203.4	67.7	348.3	454.2	64.2	343.9	363.8	56.9	308.6	319.7	58.0	266.8	275.6	50.7	203.4
216.5	57.1	315.3	421.1	53.6	313.1	359.4	46.5	299.8	313.1	47.2	262.4	269.0	40.1	216.5
229.7	47.6	286.6	385.8	44.5	284.4	350.5	37.3	282.2	308.6	37.9	255.7	264.6	31.5	229.7
242.8	39.7	262.4	352.7	36.4	260.1	341.7	29.1	257.9	302.0	29.8	249.1	257.9	23.6	242.8
255.9	32.8	240.3	324.1	29.1	238.1	328.5	21.8	235.9	295.4	22.7	238.1	251.3	16.3	255.9
269.0	26.9	216.1	299.1	22.7	219.4	303.4	15.7	217.2	288.1	16.5	219.4	245.8	18.3*	269.0
272.3	25.6	209.4	292.8	21.3	215.2	297.2	22.3*	212.7	286.2	23.0*	215.0	244.2	16.8*	272.3
282.2	21.8	189.6	275.6	17.2	202.8	280.0	17.9*	199.5	275.6	18.5*	201.7	239.6	-	282.2
285.4	20.9	183.0	270.1	15.9	198.7	274.5	16.5*	195.7	271.2	17.2*	197.9	238.1	-	285.4
288.7	19.9	176.4	264.6	22.4*	194.6	269.0	-	191.8	266.8	15.9*	194.0	236.6	-	288.7
292.0	19.0	168.7	259.0	21.1*	190.4	263.5	-	187.9	262.4	-	190.1	235.2	-	292.0
295.3	-	-	253.5	19.8*	186.3	257.9	-	184.1	257.9	-	186.3	233.7	-	295.3
308.4	-	-	233.7	15.4*	167.6	238.8	-	169.8	238.5	-	172.0	227.8	-	308.4
321.5	-	-	216.8	-	147.7	220.8	-	154.3	220.5	-	158.7	219.4	-	321.5
324.8	-	-	212.7	-	142.2	216.6	-	149.9	216.1	-	155.7	216.1	-	324.8
331.4	-	-	204.7	-	131.2	208.2	-	141.1	207.2	-	149.6	209.4	-	331.4
334.6	-	-	200.6	-	-	203.9	-	136.7	202.8	-	146.6	206.1	-	334.6
341.2	-	-	192.9	-	-	196.6	-	127.9	195.5	-	138.5	198.8	-	341.2
347.8	-	-	185.2	-	-	189.2	-	117.9	188.1	-	130.1	191.4	-	347.8
351.1	-	-	181.3	-	-	185.6	-	113.5	184.5	-	126.2	187.8	-	351.1
360.9	-	-	170.9	-	-	175.3	-	-	173.7	-	114.6	177.1	-	360.9
367.5	-	-	164.2	-	-	168.7	-	-	166.7	-	105.6	170.1	-	367.5
374.0	-	-	157.6	-	-	162.0	-	-	159.8	-	-	163.1	-	374.0
377.3	-	-	154.5	-	-	158.9	-	-	156.9	-	-	160.9	-	377.3
387.1	-	-	145.1	-	-	149.5	-	-	148.1	-	-	151.7	-	387.1
400.3	-	-	130.8	-	-	137.8	-	-	136.7	-	-	140.0	-	400.3
413.4	-	-	114.6	-	-	126.8	-	-	125.7	-	-	129.0	-	413.4
426.5	-	-	98.0	-	-	114.0	-	-	115.4	-	-	118.7	-	426.5
439.6	-	-	81.6	-	-	100.5	-	-	104.0	-	-	109.0	-	439.6
452.8	-	-	65.3	-	-	86.4	-	-	91.5	-	-	99.9	-	452.8
459.3	-	-	56.7	-	-	79.4	-	-	84.9	-	-	93.5	-	459.3
465.9	-	-	-	-	-	72.5	-	-	78.3	-	-	87.1	-	465.9
479.0	-	-	-	-	-	58.4	-	-	65.2	-	-	74.6	-	479.0
492.1	-	-	-	-	-	44.1	-	-	52.2	-	-	62.4	-	492.1
495.4	-	-	-	-	-	40.6	-	-	48.9	-	-	59.3	-	495.4
515.1	-	-	-	-	-	-	-	-	28.7	-	-	40.9	-	515.1
518.4	-	-	-	-	-	-	-	-	-	-	-	37.8	-	518.4
531.5	-	-	-	-	-	-	-	-	-	-	-	25.1	-	531.5
534.8	-	-	-	-	-	-	-	-	-	-	-	21.8	-	534.8
544.6	-	-	-	-	-	-	-	-	-	-	-	-	-	544.6
547.9	-	-	-	-	-	-	-	-	-	-	-	-	-	547.9

\* Main boom angle 87°



0 lb    242,500 lb    374,800 lb    595,300 lb    815,800 lb    992,100 lb    1,191,000 lb

# Operation

# SWSL\_2, SFSL\_2

463 klb +  44.1 klb ZB  49.2-78.7 ft  31.5 ft  32.2 ft/s 360° ASME B30.5																
223.1 ft																
118.1 ft			137.8 ft			157.5 ft			196.9 ft			236.2 ft				
SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2		
0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		
87°/85°		15°		87°/85°		15°		87°/85°		15°		87°/85°		15°		
ft	1,000 lb												ft			
52.5	610.7*	1190.5*	-	-	-	-	-	-	-	-	-	-	-	52.5		
59.1	546.7*	1153.0*	-	531.3*	1051.6*	-	-	-	-	-	-	-	-	59.1		
62.3	520.3*	1131.0*	-	504.9*	1036.2*	-	487.2*	950.2*	-	-	-	-	-	62.3		
65.6	469.6	1236.8	-	480.6*	1022.9*	-	463.0*	939.2*	-	-	-	-	-	65.6		
72.2	427.7	1188.3	-	414.5	1097.9	-	423.3*	914.9*	-	394.6*	765.0*	-	-	72.2		
75.5	410.1	1169.6	1148.6	396.8	1074.8	-	381.4	989.9	-	378.1*	758.4*	-	-	75.5		
78.7	392.4	1150.8	1148.6	379.2	1062.6	-	366.0	981.1	-	361.6*	751.8*	-	339.5*	623.9*	78.7	
82.0	377.0	1125.5	1148.6	364.9	1046.1	1025.2	351.6	972.2	-	347.2*	744.1*	-	326.3*	618.4*	82.0	
85.3	361.6	1106.7	1148.6	350.5	1031.8	1025.2	337.3	963.4	-	313.1	795.9	-	313.1*	612.9*	85.3	
88.6	348.3	1088.0	1148.6	337.3	1011.9	1025.2	324.1	941.4	921.5	300.9	791.5	-	300.9*	609.6*	88.6	
91.9	335.1	1069.2	1148.6	324.1	996.5	1025.2	310.9	930.4	919.3	288.8	787.1	-	288.8*	606.3*	91.9	
98.4	310.9	1007.5	1111.1	302.0	967.8	1025.2	288.8	906.1	919.3	269.0	778.2	-	249.1	634.9	98.4	
101.7	300.4	964.0	1071.4	291.6	939.7	1025.2	279.4	891.2	919.3	260.1	762.8	743.0	241.1	633.3	101.7	
111.5	269.0	833.3	959.0	260.1	855.4	965.6	251.3	853.2	919.3	233.7	740.8	740.8	217.2	628.3	111.5	
114.8	259.0	801.9	928.1	250.2	822.9	933.7	241.7	823.4	912.7	225.1	730.8	740.8	209.7	624.5	601.9	114.8
124.7	229.3	707.7	840.0	220.5	725.3	844.4	212.7	734.1	848.8	199.5	707.7	740.8	187.4	612.9	601.9	124.7
134.5	204.5	620.1	765.6	197.3	652.6	771.6	188.8	658.1	774.4	176.4	651.5	740.8	165.1	590.8	601.9	134.5
137.8	196.2	590.8	740.8	189.6	628.3	747.4	180.8	632.7	749.6	168.7	632.7	740.8	157.6	586.4	601.9	137.8
141.1	189.6	551.2	720.4	183.3	606.3	727.0	174.4	612.3	729.2	162.3	612.9	724.2	151.6	577.6	601.9	141.1
150.9	-	-	659.2	164.2	540.1	665.8	155.4	551.2	668.0	143.3	553.4	674.6	133.4	551.2	601.9	150.9
154.2	-	-	642.1	159.1	512.9	648.2	150.5	533.0	650.9	138.3	536.8	657.0	128.1	535.7	601.9	154.2
160.8	-	-	607.9	148.8	458.6	612.9	140.5	496.6	616.7	128.4	503.8	621.7	117.7	504.9	601.9	160.8
164.0	-	-	590.8	-	-	595.2	135.6	478.4	599.7	123.5	487.2	604.1	112.4	489.4	601.9	164.0
170.6	-	-	561.1	-	-	565.5	127.3	437.6	568.8	114.8	460.8	574.3	104.2	461.9	575.4	170.6
177.2	-	-	531.3	-	-	535.7	119.0	396.8	537.9	106.0	434.3	544.5	95.9	434.3	549.0	177.2
180.4	-	-	518.1	-	-	522.5	115.7	374.8	524.7	102.5	423.3	531.3	92.4	423.3	535.7	180.4
190.3	-	-	478.4	-	-	482.8	-	-	485.0	91.9	390.2	491.6	81.8	390.2	496.0	190.3
203.4	-	-	434.3	-	-	438.7	-	-	440.9	80.5	343.9	445.3	69.7	352.7	449.7	203.4
210.0	-	-	414.5	-	-	418.9	-	-	421.1	75.7	317.5	425.5	64.5	336.2	429.9	210.0
216.5	-	-	394.6	-	-	399.0	-	-	401.2	71.0	291.0	405.7	59.3	319.7	410.1	216.5
229.7	-	-	359.4	-	-	363.8	-	-	366.0	-	-	370.4	50.7	288.8	374.8	229.7
242.8	-	-	328.5	-	-	332.9	-	-	335.1	-	-	339.1	43.2	251.3	341.7	242.8
249.3	-	-	315.3	-	-	318.6	-	-	320.8	-	-	325.0	40.5	232.6	327.4	249.3
255.9	-	-	302.0	-	-	304.2	-	-	306.4	-	-	310.9	37.7	213.8	313.1	255.9
269.0	-	-	277.0	-	-	280.7	-	-	281.5	-	-	285.9	-	-	288.1	269.0
282.2	-	-	253.5	-	-	257.5	-	-	257.9	-	-	262.4	-	-	264.6	282.2
295.3	-	-	227.1	-	-	235.9	-	-	238.1	-	-	240.3	-	-	242.5	295.3
308.4	-	-	196.2	-	-	212.4	-	-	219.0	-	-	221.9	-	-	224.2	308.4
318.2	-	-	172.0	-	-	193.5	-	-	203.6	-	-	208.5	-	-	210.7	318.2
321.5	-	-	-	-	-	186.3	-	-	197.7	-	-	204.3	-	-	206.5	321.5
334.6	-	-	-	-	-	157.6	-	-	174.2	-	-	187.4	-	-	189.6	334.6
337.9	-	-	-	-	-	151.0	-	-	167.8	-	-	183.4	-	-	185.9	337.9
347.8	-	-	-	-	-	-	-	-	148.6	-	-	171.5	-	-	174.9	347.8
354.3	-	-	-	-	-	-	-	-	135.6	-	-	162.0	-	-	167.6	354.3
360.9	-	-	-	-	-	-	-	-	-	-	-	151.4	-	-	160.9	360.9
374.0	-	-	-	-	-	-	-	-	-	-	-	130.1	-	-	147.7	374.0
387.1	-	-	-	-	-	-	-	-	-	-	-	109.1	-	-	131.5	387.1
393.7	-	-	-	-	-	-	-	-	-	-	-	98.5	-	-	123.5	393.7
400.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	114.5	400.3
413.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96.6	413.4
426.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	78.2	426.5
433.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69.0	433.1

0 lb   242,500 lb   374,800 lb   595,300 lb   815,800 lb   992,100 lb   1,191,000 lb

\* Main boom angle 87°

# Operation

# SWSL\_2, SFSL\_2

463 klb + 44.1 klb ZB														49.2-78.7 ft		31.5 ft		32.2 ft/s		360°		ASME B30.5	
223.1 ft																							
275.6 ft			315.0 ft			334.6 ft			354.3 ft			374.0 ft											
SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2									
0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb									
87°/85°		15°		87°/85°		15°		87°/85°		15°		87°/85°		15°									
ft														1,000 lb		ft							
88.6	282.2*	502.7*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88.6		
91.9	273.4*	500.4*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91.9		
98.4	253.5*	493.8*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98.4		
101.7	245.0*	491.1*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101.7		
108.3	210.0	507.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	108.3		
111.5	202.8	504.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	111.5		
124.7	176.4	500.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	124.7		
128.0	170.0	498.8	487.2	160.1	391.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	128.0		
137.8	151.0	493.8	487.2	144.4	388.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	137.8		
144.4	138.9	489.4	487.2	133.4	384.7	381.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	144.4		
150.9	126.8	485.0	487.2	122.4	381.4	381.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150.9		
157.5	117.1	474.0	487.2	112.5	378.1	381.4	105.9	332.9	332.9	105.7	291.0	288.8	97.8	255.7	-	-	-	-	-	-	157.5		
164.0	107.4	467.4	487.2	102.7	374.8	381.4	96.1	330.7	332.9	95.7	288.8	288.8	88.8	253.5	253.5	164.0	-	-	-	-	164.0		
177.2	90.4	434.3	487.2	87.1	366.0	379.2	79.6	324.1	330.7	79.1	282.2	286.6	73.2	249.1	251.3	177.2	-	-	-	-	177.2		
190.3	76.1	390.2	480.6	73.2	359.4	372.6	65.3	319.7	326.3	66.1	275.6	282.2	59.3	244.7	246.9	190.3	-	-	-	-	190.3		
203.4	63.9	350.5	456.4	60.8	348.3	368.2	53.1	313.1	324.1	54.5	271.2	277.8	47.2	240.3	242.5	203.4	-	-	-	-	203.4		
216.5	53.6	317.5	416.7	50.3	317.5	361.6	43.2	306.4	317.5	43.9	264.6	273.4	36.8	233.7	238.1	216.5	-	-	-	-	216.5		
229.7	44.3	291.0	379.2	41.2	288.8	354.9	34.2	286.6	310.9	34.8	257.9	266.8	28.2	229.3	233.7	229.7	-	-	-	-	229.7		
242.8	36.6	264.6	348.3	33.3	262.4	348.3	26.0	260.1	304.2	26.7	251.3	260.1	20.5	222.7	229.3	242.8	-	-	-	-	242.8		
255.9	29.8	242.5	319.7	26.2	242.5	324.1	19.0	240.3	299.8	20.1	240.3	255.7	22.9*	218.3	222.7	255.9	-	-	-	-	255.9		
269.0	24.0	219.4	294.7	20.1	222.7	299.1	21.8*	219.4	291.0	22.5*	220.5	249.9	16.3*	212.7	217.5	269.0	-	-	-	-	269.0		
282.2	19.2	192.9	271.2	23.1*	203.9	275.6	16.1*	201.7	274.8	16.5*	203.9	244.0	-	201.7	212.4	282.2	-	-	-	-	282.2		
285.4	18.2	186.3	265.7	21.9*	200.1	270.1	-	197.9	269.0	-	199.8	242.5	-	197.9	211.1	285.4	-	-	-	-	285.4		
295.3	15.4	164.2	249.1	18.1*	188.5	253.5	-	186.3	251.3	-	187.4	238.1	-	186.3	207.2	295.3	-	-	-	-	295.3		
301.8	-	-	238.1	15.9*	179.1	243.6	-	179.1	242.5	-	180.2	234.6	-	179.1	204.8	301.8	-	-	-	-	301.8		
308.4	-	-	228.7	-	169.8	233.7	-	172.0	233.0	-	173.1	231.0	-	172.0	202.2	308.4	-	-	-	-	308.4		
321.5	-	-	210.9	-	149.9	216.4	-	156.5	214.6	-	159.8	218.6	-	158.7	196.9	321.5	-	-	-	-	321.5		
324.8	-	-	206.7	-	144.4	212.2	-	152.1	210.5	-	157.1	214.4	-	155.7	195.7	324.8	-	-	-	-	324.8		
331.4	-	-	198.2	-	133.4	203.7	-	143.3	202.5	-	151.0	205.9	-	149.6	193.1	331.4	-	-	-	-	331.4		
334.6	-	-	194.0	-	-	199.5	-	138.9	198.4	-	147.7	201.7	-	146.6	191.8	334.6	-	-	-	-	334.6		
344.5	-	-	183.0	-	-	187.9	-	124.9	186.8	-	136.3	190.1	-	138.3	184.9	344.5	-	-	-	-	344.5		
347.8	-	-	179.3	-	-	184.1	-	120.2	183.0	-	132.3	186.3	-	135.6	182.2	347.8	-	-	-	-	347.8		
351.1	-	-	175.6	-	-	180.2	-	115.7	179.1	-	128.1	182.4	-	132.3	179.9	351.1	-	-	-	-	351.1		
360.9	-	-	165.3	-	-	169.8	-	-	168.7	-	115.7	172.0	-	122.4	170.9	360.9	-	-	-	-	360.9		
370.7	-	-	155.4	-	-	159.8	-	-	158.7	-	103.2	162.0	-	111.4	160.9	370.7	-	-	-	-	370.7		
374.0	-	-	152.1	-	-	156.5	-	-	155.4	-	-	158.7	-	107.8	157.6	374.0	-	-	-	-	374.0		
380.6	-	-	145.9	-	-	150.3	-	-	149.2	-	-	152.5	-	100.3	151.4	380.6	-	-	-	-	380.6		
387.1	-	-	139.6	-	-	144.0	-	-	142.9	-	-	146.2	-	92.6	145.1	387.1	-	-	-	-	387.1		
390.4	-	-	136.5	-	-	140.9	-	-	139.8	-	-	143.1	-	88.6	142.0	390.4	-	-	-	-	390.4		
400.3	-	-	127.1	-	-	132.3	-	-	131.2	-	-	134.5	-	-	133.4	400.3	-	-	-	-	400.3		
413.4	-	-	114.6	-	-	121.3	-	-	120.2	-	-	123.5	-	-	122.4	413.4	-	-	-	-	413.4		
426.5	-	-	99.4	-	-	111.4	-	-	110.2	-	-	113.5	-	-	112.2	426.5	-	-	-	-	426.5		
439.6	-	-	84.0	-	-	100.0	-	-	100.5	-	-	103.9	-	-	102.5	439.6	-	-	-	-	439.6		
452.8	-	-	68.6	-	-	87.1	-	-	91.3	-	-	94.8	-	-	93.3	452.8	-	-	-	-	452.8		
465.9	-	-	52.7	-	-	73.6	-	-	78.7	-	-	86.2	-	-	84.8	465.9	-	-	-	-	465.9		
469.2	-	-	48.7	-	-	70.3	-	-	75.5	-	-	83.4	-	-	82.7	469.2	-	-	-	-	469.2		
479.0	-	-	-	-	-	60.3	-	-	66.1	-	-	74.7	-	-	76.1	479.0	-	-	-	-	479.0		
492.1	-	-	-	-	-	47.0	-	-	53.6	-	-	62.8	-	-	66.8	492.1	-	-	-	-	492.1		
508.5	-	-	-	-	-	29.5	-	-	37.8	-	-	48.1	-	-	52.8	508.5	-	-	-	-	508.5		
518.4	-	-	-	-	-	-	-	-	28.3	-	-	39.4	-	-	44.5	518.4	-	-	-	-	518.4		
524.9	-	-	-	-	-	-	-	-	21.8	-	-	33.5	-	-	39.0	524.9	-	-	-	-	524.9		
531.5	-	-	-	-	-	-	-	-	-	-	-	27.3	-	-	33.5	531.5	-	-	-	-	531.5		
541.3	-	-	-	-	-	-	-	-	-	-	-	18.3	-	-	25.1	541.3	-	-	-	-	541.3		
544.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.3	544.6	-	-	-	-	544.6		
551.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.8	551.2	-	-	-	-	551.2		

0 lb 242,500 lb 374,800 lb 595,300 lb 815,800 lb 992,100 lb 1,191,000 lb

\* Main boom angle 87°

# Operation

# SWSL\_2, SFSL\_2

463 klb +  44.1 klb ZB  49.2-78.7 ft  31.5 ft  32.2 ft/s 360° ASME B30.5																
242.8 ft																
118.1 ft			137.8 ft			157.5 ft			196.9 ft			236.2 ft				
SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2		
0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		
87°/85°		15°		87°/85°		15°		87°/85°		15°		87°/85°		15°		
ft	1,000 lb												ft			
55.8	555.6*	1071.4*	-	-	-	-	-	-	-	-	-	-	-	55.8		
59.1	526.9*	1056.0*	-	511.5*	963.4*	-	-	-	-	-	-	-	-	59.1		
62.3	500.4*	1040.6*	-	485.0*	952.4*	-	467.4*	873.0*	-	-	-	-	-	62.3		
65.6	476.2*	1022.9*	-	463.0*	939.2*	-	445.3*	862.0*	-	-	-	-	-	65.6		
72.2	410.1	1100.1	-	396.8	998.7	-	407.9*	842.2*	-	381.4*	705.5*	-	-	72.2		
78.7	377.0	1060.4	1056.0	363.8	981.1	-	350.5	895.1	-	348.3*	692.3*	-	-	78.7		
82.0	361.6	1043.9	1056.0	349.4	971.1	-	336.2	888.5	-	335.1*	686.7*	-	313.1*	571.0*	82.0	
85.3	346.1	1029.6	1056.0	335.1	961.2	943.6	321.9	881.8	-	321.9*	681.2*	-	302.0*	566.6*	85.3	
91.9	321.9	992.1	1056.0	310.9	925.9	943.6	297.6	866.4	846.6	277.8	720.9	-	277.8*	560.0*	91.9	
98.4	297.6	959.0	1056.0	288.8	901.7	943.6	277.8	835.6	846.6	257.9	712.1	-	238.1	584.2	98.4	
105.0	278.9	907.2	1027.4	270.1	869.7	943.6	260.1	814.6	846.6	240.3	702.2	685.6	222.1	580.9	105.0	
111.5	260.1	855.4	954.6	251.3	842.2	943.6	242.5	793.7	846.6	222.7	692.3	685.6	206.1	577.6	111.5	
118.1	240.3	790.4	890.7	233.1	792.6	897.3	224.3	768.3	846.6	208.3	671.3	685.6	193.5	571.0	557.8	118.1
124.7	220.5	725.3	835.6	215.0	743.0	840.0	206.1	745.2	844.4	194.0	659.2	685.6	180.8	564.4	557.8	124.7
134.5	197.3	629.4	761.1	191.8	666.9	767.2	183.8	685.6	770.0	171.7	634.9	685.6	160.1	552.8	557.8	134.5
137.8	189.6	597.5	736.3	184.1	641.5	743.0	176.4	665.8	745.2	164.2	628.3	685.6	153.2	549.0	557.8	137.8
144.4	176.4	520.3	695.6	172.0	594.1	701.1	163.7	618.4	704.4	151.6	606.3	676.8	141.6	534.6	557.8	144.4
150.9	-	-	654.8	159.8	546.7	659.2	151.0	571.0	663.6	138.9	584.2	668.0	130.1	526.9	557.8	150.9
154.2	-	-	637.7	154.9	518.6	642.1	146.1	549.0	646.5	133.9	567.7	650.9	124.9	520.8	557.8	154.2
164.0	-	-	586.4	140.0	434.3	590.8	131.2	482.8	595.2	119.0	518.1	599.7	109.6	502.7	557.8	164.0
173.9	-	-	540.1	-	-	546.2	118.8	421.6	549.0	106.8	471.8	553.4	97.2	469.6	547.8	173.9
177.2	-	-	524.7	-	-	531.3	114.6	401.2	533.5	102.7	456.4	537.9	93.0	458.6	544.5	177.2
180.4	-	-	511.5	-	-	515.9	111.3	379.2	520.3	99.3	442.0	524.7	89.6	446.4	530.8	180.4
190.3	-	-	474.0	-	-	478.4	-	-	480.6	88.8	399.0	485.0	79.1	410.1	489.4	190.3
203.4	-	-	427.7	-	-	432.1	-	-	436.5	77.4	346.1	438.7	67.2	366.0	443.1	203.4
210.0	-	-	407.9	-	-	412.3	-	-	415.6	72.6	319.7	418.9	62.2	345.0	423.3	210.0
216.5	-	-	388.0	-	-	392.4	-	-	394.6	67.9	293.2	399.0	57.1	324.1	403.4	216.5
219.8	-	-	379.2	-	-	383.6	-	-	385.8	66.1	277.8	390.2	55.0	314.7	394.6	219.8
229.7	-	-	354.9	-	-	357.1	-	-	359.4	-	-	363.8	48.5	286.6	368.2	229.7
242.8	-	-	324.1	-	-	326.3	-	-	328.5	-	-	332.9	41.2	249.1	335.1	242.8
249.3	-	-	309.7	-	-	313.1	-	-	314.2	-	-	318.6	38.3	230.9	320.8	249.3
255.9	-	-	295.4	-	-	299.8	-	-	299.8	-	-	304.2	35.3	212.7	306.4	255.9
259.2	-	-	289.2	-	-	293.6	-	-	293.9	-	-	298.0	34.2	201.7	300.2	259.2
269.0	-	-	270.4	-	-	274.8	-	-	276.3	-	-	279.3	-	-	281.5	269.0
282.2	-	-	248.2	-	-	251.3	-	-	251.3	-	-	255.0	-	-	257.9	282.2
295.3	-	-	227.1	-	-	229.3	-	-	231.5	-	-	233.7	-	-	235.9	295.3
308.4	-	-	205.8	-	-	211.6	-	-	213.1	-	-	214.6	-	-	217.5	308.4
321.5	-	-	180.8	-	-	192.2	-	-	195.5	-	-	196.9	-	-	199.9	321.5
334.6	-	-	152.1	-	-	170.9	-	-	178.6	-	-	180.8	-	-	183.0	334.6
347.8	-	-	-	-	-	146.2	-	-	158.7	-	-	165.9	-	-	168.1	347.8
354.3	-	-	-	-	-	133.4	-	-	147.7	-	-	158.7	-	-	160.9	354.3
360.9	-	-	-	-	-	-	-	-	136.0	-	-	151.8	-	-	154.3	360.9
374.0	-	-	-	-	-	-	-	-	112.4	-	-	137.8	-	-	141.1	374.0
387.1	-	-	-	-	-	-	-	-	-	-	-	118.5	-	-	128.6	387.1
400.3	-	-	-	-	-	-	-	-	-	-	-	99.0	-	-	115.3	400.3
410.1	-	-	-	-	-	-	-	-	-	-	-	84.2	-	-	104.7	410.1
413.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101.2	413.4
426.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84.7	426.5
439.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68.1	439.6
449.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55.3	449.5

0 lb   242,500 lb   374,800 lb   595,300 lb   815,800 lb   992,100 lb   1,191,000 lb

\* Main boom angle 87°

# Operation

# SWSL\_2, SFSL\_2

242.8 ft													
275.6 ft		315.0 ft		334.6 ft		354.3 ft		374.0 ft					
SWSL_2		SFSL_2		SWSL_2		SFSL_2		SWSL_2		SFSL_2		SWSL_2	
0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb	
87°/85°		15°		87°/85°		15°		87°/85°		15°		87°/85°	
1,000 lb													
ft													ft
88.6	273.4	467.4	-	-	-	-	-	-	-	-	-	-	88.6
91.9	262.4	463.0	-	-	-	-	-	-	-	-	-	-	91.9
98.4	242.5	458.6	-	229.3	372.6	-	-	-	-	-	-	-	98.4
105.0	226.5	453.1	-	213.8	369.3	-	203.9	328.5	-	-	-	-	105.0
108.3	199.5	471.8	-	206.1	367.6	-	196.8	327.4	-	192.9	288.8	-	108.3
111.5	191.8	469.6	-	198.4	366.0	-	189.6	326.3	-	186.3	286.6	-	111.5
124.7	167.6	465.2	-	156.5	370.4	-	147.7	328.5	-	162.0	282.2	-	124.7
131.2	157.1	461.9	451.9	146.1	367.1	-	138.3	325.2	-	134.5	285.1	-	131.2
137.8	146.6	458.6	451.9	135.6	363.8	-	129.0	321.9	-	125.7	282.2	-	137.8
144.4	135.0	454.2	451.9	126.2	361.6	357.1	120.7	319.7	-	117.3	280.0	-	144.4
150.9	123.5	449.7	451.9	116.8	359.4	357.1	112.4	317.5	313.1	108.9	277.8	-	150.9
157.5	114.0	444.2	451.9	107.1	356.0	357.1	103.1	314.2	313.1	99.2	275.6	275.6	157.5
164.0	104.5	438.7	451.9	97.4	352.7	357.1	93.7	310.9	313.1	89.5	273.4	275.6	164.0
177.2	88.0	423.3	451.9	80.9	346.1	357.1	77.4	306.4	310.9	73.4	269.0	273.4	177.2
190.3	73.9	405.7	451.9	67.0	339.5	352.7	63.5	299.8	308.6	60.6	264.6	269.0	190.3
203.4	61.9	370.4	447.5	55.8	335.1	348.3	51.8	295.4	304.2	49.4	257.9	264.6	203.4
216.5	51.8	335.1	405.7	45.6	321.9	346.1	42.1	291.0	299.8	39.2	253.5	260.1	216.5
229.7	42.8	304.2	370.4	36.6	306.4	341.7	33.3	282.2	295.4	30.2	249.1	255.7	229.7
242.8	35.1	273.4	337.3	28.9	280.0	335.1	25.4	269.0	288.8	22.5	242.5	251.3	242.8
255.9	28.4	244.7	308.6	22.0	257.9	319.7	18.3	253.5	284.4	15.9	235.9	246.9	255.9
269.0	22.7	217.2	283.7	16.1	233.7	293.2	22.3	231.5	277.0	19.6	229.3	241.0	269.0
272.3	21.4	210.5	277.4	24.4	227.9	286.6	20.8	226.5	275.2	18.1	226.0	239.6	272.3
275.6	20.2	203.9	271.2	22.9	222.1	280.0	19.3	221.6	273.4	16.5	222.7	238.1	275.6
282.2	17.6	190.7	260.1	20.1	210.5	269.0	16.3	211.6	265.3	-	216.1	235.2	282.2
288.7	15.7	176.4	249.1	17.6	200.1	257.9	-	201.7	257.2	-	206.7	232.2	288.7
292.0	-	169.2	243.6	16.3	194.8	252.4	-	196.8	253.2	-	202.0	230.8	292.0
295.3	-	162.0	238.1	-	189.6	246.9	-	191.8	249.1	-	197.3	229.3	295.3
308.4	-	-	219.0	-	168.7	228.0	-	172.0	228.7	-	179.7	224.9	308.4
321.5	-	-	201.0	-	148.8	209.8	-	154.3	210.5	-	162.0	213.8	321.5
324.8	-	-	196.8	-	143.3	205.6	-	149.9	206.1	-	158.2	209.4	324.8
334.6	-	-	184.1	-	126.8	192.9	-	136.7	192.9	-	145.5	196.2	334.6
344.5	-	-	172.5	-	-	181.9	-	122.7	181.9	-	134.1	184.6	344.5
347.8	-	-	168.7	-	-	178.2	-	117.9	178.2	-	130.1	180.8	347.8
354.3	-	-	162.0	-	-	170.9	-	108.0	170.9	-	121.8	173.1	354.3
360.9	-	-	155.4	-	-	163.9	-	-	163.9	-	113.5	166.2	360.9
370.7	-	-	145.5	-	-	153.4	-	-	153.4	-	101.0	155.6	370.7
374.0	-	-	142.2	-	-	149.9	-	-	149.9	-	-	152.1	374.0
380.6	-	-	136.0	-	-	143.7	-	-	144.0	-	-	146.2	380.6
387.1	-	-	129.7	-	-	137.4	-	-	138.2	-	-	140.4	387.1
390.4	-	-	126.6	-	-	134.3	-	-	135.2	-	-	137.4	390.4
400.3	-	-	118.2	-	-	125.7	-	-	126.4	-	-	129.0	400.3
413.4	-	-	107.6	-	-	114.6	-	-	114.6	-	-	117.9	413.4
426.5	-	-	97.7	-	-	104.8	-	-	104.8	-	-	107.5	426.5
439.6	-	-	86.6	-	-	95.2	-	-	95.2	-	-	97.6	439.6
452.8	-	-	72.3	-	-	86.2	-	-	86.0	-	-	88.4	452.8
465.9	-	-	58.1	-	-	75.2	-	-	77.0	-	-	80.8	465.9
479.0	-	-	43.7	-	-	63.5	-	-	66.7	-	-	72.3	479.0
485.6	-	-	36.4	-	-	57.3	-	-	60.8	-	-	67.7	485.6
492.1	-	-	-	-	-	51.1	-	-	54.9	-	-	63.1	492.1
518.4	-	-	-	-	-	25.7	-	-	31.6	-	-	41.0	518.4
524.9	-	-	-	-	-	19.2	-	-	25.7	-	-	35.5	524.9
531.5	-	-	-	-	-	-	-	-	19.8	-	-	30.0	531.5
534.8	-	-	-	-	-	-	-	-	17.0	-	-	27.2	534.8
544.6	-	-	-	-	-	-	-	-	-	-	-	18.9	544.6
547.9	-	-	-	-	-	-	-	-	-	-	-	16.1	547.9
554.5	-	-	-	-	-	-	-	-	-	-	-	-	554.5

\* Main boom angle 87°

	0 lb	242,500 lb	374,800 lb	595,300 lb	815,800 lb	992,100 lb	1,191,000 lb
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# Operation

# SWSL\_2, SFSL\_2

463 klb + 44.1 klb ZB														49.2-78.7 ft		31.5 ft		32.2 ft/s		360°		ASME B30.5	
255.9 ft																							
118.1 ft			137.8 ft			157.5 ft			196.9 ft			236.2 ft											
SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2									
0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb									
87°/85°		15°		87°/85°		15°		87°/85°		15°		87°/85°		15°									
ft														1,000 lb		ft							
55.8	540.1	1069.2	*	-	-	-	-	-	-	-	-	-	-	-	-	55.8							
59.1	513.7	1053.8	*	-	496.0	965.6	*	-	-	-	-	-	-	-	-	59.1							
65.6	465.2	1020.7	*	-	449.7	939.2	*	-	434.3	862.0	*	-	-	-	-	65.6							
72.2	396.8	1091.3		-	383.6	996.5		-	396.8	844.4	*	-	370.4	709.9	*	72.2							
78.7	363.8	1053.8		1042.8	352.7	976.6		-	339.5	895.1		-	339.5	694.5	*	78.7							
82.0	349.4	1038.4		1042.8	338.4	965.6		-	326.3	887.4		-	326.3	688.9	*	82.0							
85.3	335.1	1022.9		1042.8	324.1	954.6		932.6	313.1	879.6		-	313.1	683.4	*	85.3							
91.9	310.9	985.5		1042.8	302.0	923.7		932.6	288.8	862.0		840.0	266.8	723.1		91.9							
98.4	288.8	952.4		1042.8	280.0	897.3		932.6	269.0	835.6		840.0	249.1	714.3		98.4							
105.0	271.2	908.3		1020.7	262.4	865.3		932.6	251.3	812.4		840.0	232.0	702.2		105.0							
111.5	253.5	868.6		948.0	244.7	837.8		932.6	233.7	789.3		840.0	215.0	690.0		111.5							
118.1	233.7	801.4		886.3	227.1	794.8		890.7	217.2	766.1		840.0	201.7	672.4		118.1							
124.7	213.8	734.1		828.9	209.4	751.8		833.3	200.6	743.0		837.8	188.5	659.2		124.7							
134.5	190.7	641.5		754.5	186.3	674.1		760.6	178.3	691.7		763.4	166.2	633.8		134.5							
137.8	183.0	610.7		729.7	178.6	648.2		736.3	170.9	674.6		738.5	158.7	626.1		137.8							
144.4	170.9	535.7		688.9	166.4	601.9		695.6	158.7	627.2		697.8	146.6	606.3		144.4							
150.9	-	-		648.2	154.3	555.6		654.8	146.6	579.8		657.0	134.5	586.4		150.9							
154.2	-	-		631.1	149.4	528.0		637.1	141.6	557.2		639.9	129.5	570.4		154.2							
164.0	-	-		579.8	134.5	445.3		584.2	126.8	489.4		588.6	114.6	522.5		164.0							
173.9	-	-		533.5	-	-		539.6	114.4	428.2		542.3	102.2	477.9		173.9							
177.2	-	-		518.1	-	-		524.7	110.2	407.9		526.9	98.1	463.0		177.2							
183.7	-	-		492.7	-	-		498.2	104.1	363.8		500.4	91.4	433.2		183.7							
190.3	-	-		467.4	-	-		471.8	-	-		474.0	84.7	403.4		190.3							
203.4	-	-		421.1	-	-		425.5	-	-		429.9	73.2	350.5		203.4							
213.3	-	-		391.3	-	-		395.7	-	-		400.1	66.4	310.9		213.3							
216.5	-	-		381.4	-	-		385.8	-	-		390.2	64.2	297.6		216.5							
219.8	-	-		372.6	-	-		377.0	-	-		380.3	62.2	284.4		219.8							
229.7	-	-		346.1	-	-		350.5	-	-		352.7	-	-		229.7							
242.8	-	-		315.3	-	-		319.7	-	-		321.9	-	-		242.8							
249.3	-	-		302.0	-	-		305.3	-	-		307.5	-	-		249.3							
255.9	-	-		288.8	-	-		291.0	-	-		293.2	-	-		255.9							
259.2	-	-		282.2	-	-		284.8	-	-		287.3	-	-		259.2							
269.0	-	-		262.4	-	-		266.3	-	-		269.7	-	-		269.0							
282.2	-	-		240.7	-	-		244.7	-	-		246.9	-	-		282.2							
295.3	-	-		219.4	-	-		222.7	-	-		224.9	-	-		295.3							
308.4	-	-		201.7	-	-		204.3	-	-		205.8	-	-		308.4							
321.5	-	-		182.6	-	-		186.8	-	-		187.9	-	-		321.5							
334.6	-	-		157.6	-	-		170.9	-	-		172.0	-	-		334.6							
344.5	-	-		137.8	-	-		154.3	-	-		160.4	-	-		344.5							
347.8	-	-		-	-	-		148.8	-	-		156.5	-	-		347.8							
360.9	-	-		-	-	-		125.3	-	-		138.2	-	-		360.9							
364.2	-	-		-	-	-		119.0	-	-		132.8	-	-		364.2							
374.0	-	-		-	-	-		-	-	-		116.8	-	-		374.0							
383.9	-	-		-	-	-		-	-	-		100.3	-	-		383.9							
387.1	-	-		-	-	-		-	-	-		-	-	-		387.1							
400.3	-	-		-	-	-		-	-	-		-	-	-		400.3							
413.4	-	-		-	-	-		-	-	-		-	-	-		413.4							
423.2	-	-		-	-	-		-	-	-		-	-	-		423.2							
426.5	-	-		-	-	-		-	-	-		-	-	-		426.5							
439.6	-	-		-	-	-		-	-	-		-	-	-		439.6							
452.8	-	-		-	-	-		-	-	-		-	-	-		452.8							
459.3	-	-		-	-	-		-	-	-		-	-	-		459.3							

0 lb 242,500 lb 374,800 lb 595,300 lb 815,800 lb 992,100 lb 1,191,000 lb

\* Main boom angle 87°

# Operation

# SWSL\_2, SFSL\_2

463 klb +  44.1 klb ZB  49.2-78.7 ft  31.5 ft  32.2 ft/s 360° ASME B30.5															
255.9 ft															
275.6 ft			315.0 ft			334.6 ft			354.3 ft			374.0 ft			
SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	
0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb	
87°/85°		15°		87°/85°		15°		87°/85°		15°		87°/85°		15°	
ft													1,000 lb	ft	
91.9	253.5*	467.4*	-	-	-	-	-	-	-	-	-	-	-	-	91.9
98.4	235.9*	463.0*	-	222.7*	377.0*	-	-	-	-	-	-	-	-	-	98.4
105.0	219.9*	456.4*	-	207.2*	373.7*	-	197.3*	332.9*	-	-	-	-	-	-	105.0
108.3	191.8	476.2	-	199.5*	372.0*	-	190.7*	331.8*	-	186.3*	293.2*	-	-	-	108.3
111.5	185.2	474.0	-	191.8*	370.4*	-	184.1*	330.7*	-	179.7*	291.0*	-	172.0*	260.1*	111.5
124.7	160.9	467.4	-	148.8	374.8	-	141.1	332.9	-	156.5*	284.4*	-	148.8*	253.5*	124.7
131.2	150.5	463.0	454.2	139.4	371.5	-	131.7	329.6	-	128.6	289.5	-	138.9*	250.2*	131.2
137.8	140.0	458.6	454.2	130.1	368.2	-	122.4	326.3	-	119.0	286.6	-	112.4	253.5	137.8
144.4	129.0	454.2	454.2	120.7	366.0	361.6	114.4	324.1	-	111.2	284.4	-	104.5	251.3	144.4
150.9	117.9	449.7	454.2	111.3	363.8	361.6	106.5	321.9	-	103.4	282.2	-	96.6	249.1	150.9
154.2	113.4	447.0	454.2	106.4	362.7	361.6	101.9	320.2	317.5	98.7	281.1	-	92.8	248.0	154.2
160.8	104.4	441.5	454.2	96.6	360.5	361.6	92.6	316.9	317.5	89.3	278.9	277.8	85.3	245.8	160.8
164.0	99.9	438.7	454.2	91.7	359.4	361.6	88.0	315.3	317.5	84.7	277.8	277.8	81.6	244.7	164.0
167.3	95.8	433.2	454.2	88.0	357.1	361.6	84.1	314.2	316.9	80.7	276.7	277.2	77.9	243.6	167.3
177.2	83.6	423.3	454.2	76.9	350.5	361.6	72.5	310.9	315.3	69.0	273.4	275.6	67.0	240.3	177.2
190.3	69.7	405.7	454.2	63.5	343.9	359.4	60.0	306.4	313.1	56.4	266.8	271.2	53.8	235.9	190.3
203.4	58.2	374.8	443.1	51.8	337.3	352.7	48.5	302.0	308.6	45.4	262.4	269.0	42.3	231.5	203.4
216.5	48.3	339.5	401.2	41.7	324.1	350.5	38.4	295.4	304.2	35.5	255.7	264.6	32.4	227.1	216.5
229.7	39.5	308.6	363.8	33.3	308.6	346.1	29.5	286.6	299.8	26.9	251.3	260.1	24.0	222.7	229.7
242.8	31.7	275.6	333.6	25.8	282.2	334.7	22.0	273.4	293.2	19.2	244.7	254.4	16.8	217.2	242.8
255.9	25.4	246.9	304.2	19.0	260.1	315.3	15.4	255.7	288.8	23.6*	240.3	249.1	21.4*	212.7	255.9
265.7	21.1	227.1	284.4	25.2*	242.0	295.4	21.7*	239.2	283.3	19.0*	232.0	244.7	16.5*	208.6	265.7
269.0	19.6	219.4	277.8	23.6*	235.9	288.8	20.1*	233.7	281.5	17.4*	229.3	243.2	-	207.2	269.0
272.3	18.4	212.7	271.2	22.2*	230.1	282.2	18.6*	228.7	279.6	15.9*	226.2	241.8	-	206.1	272.3
278.9	15.9	199.5	259.0	19.5*	218.5	269.8	15.7*	218.8	271.9	-	220.2	239.2	-	203.2	278.9
282.2	22.9*	192.9	253.5	18.1*	212.7	264.1	-	213.8	266.0	-	217.2	238.1	-	201.7	282.2
288.7	18.5*	179.1	242.5	15.7*	202.3	252.6	-	203.4	254.3	-	208.3	235.9	-	198.4	288.7
295.3	-	165.3	231.5	-	191.8	242.5	-	192.9	242.5	-	199.5	233.7	-	195.1	295.3
298.6	-	157.6	226.9	-	186.7	237.7	-	188.2	237.7	-	195.1	231.5	-	192.4	298.6
308.4	-	-	213.1	-	170.9	223.4	-	174.2	223.4	-	180.8	222.9	-	183.0	308.4
321.5	-	-	195.5	-	151.0	205.0	-	156.5	205.4	-	164.2	208.3	-	166.4	321.5
324.8	-	-	191.3	-	145.5	200.6	-	152.1	201.2	-	160.1	203.9	-	162.6	324.8
334.6	-	-	178.6	-	129.0	187.4	-	138.9	188.5	-	147.7	190.7	-	151.0	334.6
344.5	-	-	167.0	-	-	176.4	-	124.8	176.9	-	135.3	179.5	-	139.4	344.5
347.8	-	-	163.1	-	-	172.7	-	120.2	173.1	-	131.2	175.7	-	135.6	347.8
354.3	-	-	155.4	-	-	165.3	-	110.2	165.3	-	123.5	167.6	-	128.4	354.3
360.9	-	-	148.8	-	-	158.4	-	-	158.4	-	115.7	160.9	-	121.3	360.9
364.2	-	-	145.5	-	-	154.9	-	-	154.9	-	111.6	157.6	-	117.9	364.2
374.0	-	-	135.6	-	-	144.4	-	-	144.4	-	98.3	147.7	-	107.1	374.0
380.6	-	-	129.7	-	-	138.2	-	-	138.5	-	-	141.5	-	99.6	380.6
387.1	-	-	123.8	-	-	131.9	-	-	132.6	-	-	135.2	-	92.2	387.1
393.7	-	-	117.9	-	-	125.7	-	-	126.8	-	-	129.0	-	84.0	393.7
400.3	-	-	112.4	-	-	120.2	-	-	121.0	-	-	123.5	-	-	400.3
413.4	-	-	101.4	-	-	109.3	-	-	109.6	-	-	112.4	-	-	413.4
426.5	-	-	91.5	-	-	99.4	-	-	99.4	-	-	102.1	-	-	426.5
439.6	-	-	81.8	-	-	90.0	-	-	89.8	-	-	92.2	-	-	439.6
452.8	-	-	71.2	-	-	81.4	-	-	81.4	-	-	83.3	-	-	452.8
465.9	-	-	57.8	-	-	72.4	-	-	73.7	-	-	76.3	-	-	465.9
479.0	-	-	44.3	-	-	61.9	-	-	64.2	-	-	68.6	-	-	479.0
492.1	-	-	30.4	-	-	49.8	-	-	52.9	-	-	60.4	-	-	492.1
498.7	-	-	23.4	-	-	44.0	-	-	47.3	-	-	55.1	-	-	498.7
518.4	-	-	-	-	-	26.1	-	-	30.7	-	-	39.2	-	-	518.4
528.2	-	-	-	-	-	17.0	-	-	22.4	-	-	31.3	-	-	528.2
531.5	-	-	-	-	-	-	-	-	19.6	-	-	28.7	-	-	531.5
534.8	-	-	-	-	-	-	-	-	16.8	-	-	26.1	-	-	534.8
544.6	-	-	-	-	-	-	-	-	-	-	-	18.3	-	-	544.6
547.9	-	-	-	-	-	-	-	-	-	-	-	15.7	-	-	547.9
551.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	551.2

\* Main boom angle 87°



0 lb

242,500 lb

374,800 lb

595,300 lb

815,800 lb

992,100 lb

1,191,000 lb

# Operation

# SWSL\_2, SFSL\_2

463 klb + 44.1 klb ZB														49.2-78.7 ft		31.5 ft		32.2 ft/s		360°		ASME B30.5	
275.6 ft																							
118.1 ft			137.8 ft			157.5 ft			196.9 ft			236.2 ft											
SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2									
0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb									
87°/85°		15°		87°/85°		15°		87°/85°		15°		87°/85°		15°									
ft														1,000 lb		ft							
55.8	518.1*	976.6*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55.8						
59.1	493.8*	961.2*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59.1						
62.3	469.6*	945.8*	-	454.2*	870.8*	-	-	-	-	-	-	-	-	-	-	-	62.3						
65.6	447.5*	932.6*	-	432.1*	857.6*	-	416.7*	791.5*	-	-	-	-	-	-	-	-	65.6						
72.2	379.2	989.9	-	396.8*	835.6*	-	381.4*	771.6*	-	-	-	-	-	-	-	-	72.2						
75.5	363.8	976.6	-	350.5	897.3	-	366.0*	760.6*	-	339.5*	643.8*	-	-	-	-	-	75.5						
78.7	348.3	963.4	939.2	337.3	888.5	-	321.9	813.5	-	326.3*	639.3*	-	-	-	-	-	78.7						
82.0	335.1	949.1	939.2	324.1	878.5	-	309.7	805.8	-	314.2*	632.7*	-	293.2*	529.1*	-	-	82.0						
85.3	321.9	934.8	939.2	310.9	868.6	-	297.6	798.1	-	302.0*	626.1*	-	280.0*	526.9*	-	-	85.3						
88.6	309.7	914.9	939.2	298.7	856.5	848.8	286.6	790.4	-	289.9*	619.5*	-	270.1*	522.5*	-	-	88.6						
91.9	297.6	899.5	939.2	286.6	844.4	848.8	275.6	782.6	-	253.5	659.2	-	260.1*	518.1*	-	-	91.9						
95.1	287.7	885.2	939.2	276.7	830.0	848.8	265.7	773.8	765.0	244.7	653.7	-	251.3*	513.7*	-	-	95.1						
98.4	277.8	870.8	939.2	266.8	817.9	848.8	255.7	765.0	765.0	235.9	648.2	-	242.5*	509.3*	-	-	98.4						
108.3	251.3	821.8	939.2	242.0	779.3	848.8	230.9	730.8	765.0	212.7	631.6	623.9	195.5	532.0	-	-	108.3						
111.5	242.5	806.9	939.2	233.7	767.2	848.8	222.7	720.9	765.0	205.0	626.1	623.9	188.5	529.1	-	-	111.5						
121.4	216.1	765.6	851.0	210.5	728.6	840.0	201.2	691.1	765.0	186.0	607.9	623.9	170.3	517.5	509.3	-	121.4						
124.7	207.2	751.8	822.3	202.8	716.5	831.1	194.0	681.2	765.0	179.7	601.9	623.9	164.2	513.7	509.3	-	124.7						
137.8	177.5	634.9	725.3	173.1	661.4	731.9	165.3	639.3	731.9	153.2	571.0	623.9	142.2	498.2	509.3	-	137.8						
147.6	158.7	518.1	664.1	154.9	595.2	669.1	147.2	606.3	670.8	135.0	551.2	623.9	125.7	485.0	509.3	-	147.6						
150.9	-	-	643.8	148.8	573.2	648.2	141.1	595.2	650.4	129.0	544.5	623.9	120.2	480.6	509.3	-	150.9						
157.5	-	-	609.6	139.4	519.2	614.0	131.7	550.1	616.2	119.6	528.0	606.3	110.7	468.5	509.3	-	157.5						
164.0	-	-	575.4	130.1	465.2	579.8	122.4	504.9	582.0	110.2	513.7	588.6	101.2	458.6	509.3	-	164.0						
173.9	-	-	528.0	-	-	533.5	110.3	443.7	535.7	98.5	482.3	544.0	89.3	445.3	509.3	-	173.9						
177.2	-	-	513.7	-	-	520.3	106.3	423.3	520.3	94.6	471.8	529.1	85.3	440.9	509.3	-	177.2						
183.7	-	-	487.2	-	-	493.8	99.6	379.2	493.8	87.9	442.0	502.7	78.7	428.8	504.9	-	183.7						
190.3	-	-	460.8	-	-	467.4	-	-	467.4	81.1	412.3	476.2	72.1	418.9	478.4	-	190.3						
203.4	-	-	416.7	-	-	421.1	-	-	423.3	70.1	357.1	429.9	60.6	381.4	432.1	-	203.4						
213.3	-	-	386.9	-	-	390.2	-	-	391.9	63.2	319.1	400.1	53.2	348.3	402.3	-	213.3						
216.5	-	-	377.0	-	-	381.4	-	-	381.4	60.8	306.4	390.2	50.7	337.3	392.4	-	216.5						
223.1	-	-	359.4	-	-	363.8	-	-	363.8	57.1	277.8	370.4	46.6	317.5	373.3	-	223.1						
229.7	-	-	341.7	-	-	346.1	-	-	346.1	-	-	352.7	42.5	297.6	354.9	-	229.7						
242.8	-	-	310.9	-	-	315.3	-	-	315.3	-	-	321.9	35.5	262.4	324.1	-	242.8						
252.6	-	-	289.4	-	-	293.8	-	-	293.8	-	-	300.4	31.2	234.2	302.6	-	252.6						
255.9	-	-	282.2	-	-	286.6	-	-	286.6	-	-	293.2	29.8	224.9	295.4	-	255.9						
259.2	-	-	275.6	-	-	280.0	-	-	280.0	-	-	286.6	28.4	215.0	288.8	-	259.2						
269.0	-	-	256.8	-	-	260.9	-	-	260.9	-	-	266.8	-	-	269.0	-	269.0						
282.2	-	-	234.4	-	-	238.5	-	-	238.5	-	-	244.7	-	-	245.4	-	282.2						
295.3	-	-	213.8	-	-	217.2	-	-	217.2	-	-	222.7	-	-	224.9	-	295.3						
308.4	-	-	195.3	-	-	198.8	-	-	198.8	-	-	203.6	-	-	205.0	-	308.4						
321.5	-	-	178.2	-	-	181.2	-	-	181.0	-	-	185.2	-	-	186.3	-	321.5						
334.6	-	-	162.0	-	-	165.3	-	-	164.2	-	-	168.7	-	-	169.8	-	334.6						
347.8	-	-	140.7	-	-	150.6	-	-	149.5	-	-	154.0	-	-	155.1	-	347.8						
360.9	-	-	117.6	-	-	132.6	-	-	135.6	-	-	140.0	-	-	140.7	-	360.9						
364.2	-	-	111.3	-	-	127.3	-	-	132.3	-	-	136.7	-	-	137.2	-	364.2						
374.0	-	-	-	-	-	111.3	-	-	122.4	-	-	126.8	-	-	126.8	-	374.0						
380.6	-	-	-	-	-	100.8	-	-	112.6	-	-	120.7	-	-	121.0	-	380.6						
387.1	-	-	-	-	-	-	-	-	102.8	-	-	114.7	-	-	115.2	-	387.1						
400.3	-	-	-	-	-	-	-	-	83.1	-	-	101.3	-	-	103.9	-	400.3						
413.4	-	-	-	-	-	-	-	-	-	-	-	85.5	-	-	93.0	-	413.4						
426.5	-	-	-	-	-	-	-	-	-	-	-	68.8	-	-	83.9	-	426.5						
439.6	-	-	-	-	-	-	-	-	-	-	-	52.0	-	-	72.1	-	439.6						
452.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57.5	-	452.8						
465.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42.8	-	465.9						
475.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31.7	-	475.7						

0 lb 242,500 lb 374,800 lb 595,300 lb 815,800 lb 992,100 lb 1,191,000 lb

\* Main boom angle 87°

# Operation

# SWSL\_2, SFSL\_2

<b>463 klb + 44.1 klb ZB</b> <b>49.2-78.7 ft</b> <b>31.5 ft</b> <b>32.2 ft/s</b> <b>360°</b> <b>ASME B30.5</b>												
275.6 ft												
275.6 ft		315.0 ft		334.6 ft		354.3 ft		374.0 ft				
SWSL_2	SFSL_2	SWSL_2	SFSL_2	SWSL_2	SFSL_2	SWSL_2	SFSL_2	SWSL_2	SFSL_2	SWSL_2	SFSL_2	
0 lb	0-1,191 klb	0 lb	0-1,191 klb	0 lb	0-1,191 klb	0 lb	0-1,191 klb	0 lb	0-1,191 klb	0 lb	0-1,191 klb	
87°/85°	15°	87°/85°	15°	87°/85°	15°	87°/85°	15°	87°/85°	15°	87°/85°	15°	
ft											1,000 lb	ft
91.9	244.7*	432.1*	-	-	-	-	-	-	-	-	-	91.9
98.4	227.1*	427.7*	-	-	-	-	-	-	-	-	-	98.4
101.7	219.4*	424.9*	-	205.0*	350.5*	-	-	-	-	-	-	101.7
105.0	211.6*	422.2*	-	198.0*	349.1*	-	188.5*	313.1*	-	-	-	105.0
108.3	203.9*	419.4*	-	191.1*	347.6*	-	181.9*	310.9*	-	177.5*	277.8*	108.3
111.5	174.2	438.7	-	184.1*	346.1*	-	175.3*	308.6*	-	172.0*	275.6*	111.5
114.8	168.4	437.1	-	178.0*	343.9*	-	169.5*	307.0*	-	166.2*	273.9*	114.8
124.7	151.0	432.1	-	140.0	352.7	-	132.3	310.9	-	148.8*	269.0*	124.7
134.5	137.0	423.8	416.7	125.9	347.8	-	119.0	307.5	-	115.2	272.3	134.5
137.8	132.3	421.1	416.7	121.3	346.1	-	114.6	306.4	-	111.3	271.2	137.8
147.6	115.7	412.8	416.7	108.2	341.2	337.3	102.7	301.5	-	98.8	267.9	147.6
150.9	110.2	410.1	416.7	103.8	339.5	337.3	98.8	299.8	-	94.6	266.8	150.9
154.2	105.9	407.3	416.7	99.3	338.4	337.3	94.3	298.7	297.6	90.4	265.7	154.2
160.8	97.2	401.8	416.7	90.3	336.2	337.3	85.4	296.5	297.6	82.2	263.5	160.8
164.0	92.8	399.0	416.7	85.8	335.1	337.3	80.9	295.4	297.6	78.0	262.4	164.0
167.3	88.9	396.3	416.7	81.8	332.9	337.3	77.2	294.3	297.6	74.4	261.2	167.3
177.2	77.2	388.0	416.7	70.1	326.3	337.3	65.9	291.0	297.6	63.5	257.9	177.2
190.3	63.7	372.6	416.7	56.9	319.7	337.3	53.8	286.6	295.4	50.5	253.5	190.3
203.4	52.2	361.6	410.1	46.1	310.9	332.9	42.8	282.2	291.0	39.2	249.1	203.4
216.5	42.8	346.1	401.2	36.6	304.2	328.5	33.1	275.6	286.6	29.8	244.7	216.5
229.7	34.4	317.5	366.0	28.0	293.2	324.1	24.5	269.0	284.4	21.8	240.3	229.7
242.8	26.9	284.4	332.9	20.7	282.2	317.5	17.2	262.4	280.0	27.3*	233.7	242.8
255.9	20.5	253.5	304.2	26.2*	262.4	308.6	22.9*	251.3	275.6	20.3*	229.3	255.9
259.2	19.1	246.9	297.6	24.7*	256.3	302.4	21.4*	248.6	274.1	18.7*	227.6	259.2
265.7	16.3	233.7	284.4	21.6*	244.2	289.9	18.3*	243.1	271.2	15.7*	224.3	265.7
269.0	26.7*	227.1	277.8	20.1*	238.1	283.7	16.8*	240.3	269.7	-	222.7	269.0
278.9	22.9*	206.4	260.1	16.1*	221.6	265.3	-	223.8	262.4	-	215.5	278.9
282.2	19.6*	199.5	254.4	-	216.1	259.4	-	218.3	257.9	-	213.8	282.2
285.4	16.3*	192.9	248.7	-	210.5	253.5	-	213.3	253.5	-	211.6	285.4
288.7	-	186.3	242.9	-	205.0	247.7	-	208.3	248.4	-	209.4	288.7
295.3	-	173.1	231.5	-	194.0	235.9	-	198.4	238.1	-	202.8	295.3
298.6	-	165.3	226.7	-	189.0	231.1	-	193.5	233.1	-	198.1	298.6
308.4	-	-	212.4	-	174.2	216.8	-	178.6	218.3	-	184.1	308.4
321.5	-	-	194.0	-	153.2	198.8	-	160.9	199.5	-	166.4	321.5
328.1	-	-	185.2	-	143.3	190.3	-	151.8	190.7	-	158.2	328.1
334.6	-	-	177.5	-	132.3	181.9	-	142.2	181.9	-	149.9	334.6
337.9	-	-	173.6	-	126.8	178.0	-	137.8	178.6	-	146.1	337.9
344.5	-	-	165.9	-	-	170.3	-	129.0	171.1	-	138.3	344.5
347.8	-	-	162.0	-	-	166.4	-	124.6	167.3	-	134.5	347.8
354.3	-	-	154.3	-	-	158.7	-	114.6	159.8	-	126.2	354.3
360.9	-	-	147.7	-	-	151.8	-	-	152.9	-	117.9	360.9
364.2	-	-	144.4	-	-	148.3	-	-	149.4	-	113.9	364.2
374.0	-	-	134.5	-	-	137.8	-	-	138.9	-	101.0	374.0
383.9	-	-	125.1	-	-	129.0	-	-	129.5	-	-	383.9
387.1	-	-	122.0	-	-	126.0	-	-	126.4	-	-	387.1
393.7	-	-	115.7	-	-	120.2	-	-	120.2	-	-	393.7
400.3	-	-	110.2	-	-	114.4	-	-	114.6	-	-	400.3
413.4	-	-	99.0	-	-	103.0	-	-	103.4	-	-	413.4
426.5	-	-	89.6	-	-	92.7	-	-	93.0	-	-	426.5
439.6	-	-	80.6	-	-	83.9	-	-	84.1	-	-	439.6
465.9	-	-	59.5	-	-	68.8	-	-	69.4	-	-	465.9
492.1	-	-	34.2	-	-	48.3	-	-	51.6	-	-	492.1
508.5	-	-	18.1	-	-	34.6	-	-	38.4	-	-	508.5
518.4	-	-	-	-	-	26.3	-	-	30.5	-	-	518.4
528.2	-	-	-	-	-	18.1	-	-	22.7	-	-	528.2
534.8	-	-	-	-	-	-	-	-	17.6	-	-	534.8
544.6	-	-	-	-	-	-	-	-	-	-	-	544.6
551.2	-	-	-	-	-	-	-	-	-	-	-	551.2

\* Main boom angle 87°

0 lb
242,500 lb
374,800 lb
595,300 lb
815,800 lb
992,100 lb
1,191,000 lb

# Operation

# SWSL\_2, SFSL\_2

463 klb + 44.1 klb ZB														49.2-78.7 ft		31.5 ft		32.2 ft/s		360°		ASME B30.5	
288.7 ft																							
118.1 ft			137.8 ft			157.5 ft			196.9 ft			236.2 ft											
SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2									
0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb									
87°/85°		15°		87°/85°		15°		87°/85°		15°		87°/85°		15°									
ft														1,000 lb		ft							
55.8	511.5*	970.0*	-	-	-	-	-	-	-	-	-	-	-	-	-	55.8							
59.1	487.2*	954.6*	-	-	-	-	-	-	-	-	-	-	-	-	-	59.1							
62.3	463.0*	939.2*	-	-	-	-	-	-	-	-	-	-	-	-	-	62.3							
65.6	440.9*	925.9*	-	-	-	-	-	-	-	-	-	-	-	-	-	65.6							
72.2	374.8	981.1	-	-	-	-	-	-	-	-	-	-	-	-	-	72.2							
75.5	359.4	966.7	-	-	-	-	-	-	-	-	-	-	-	-	-	75.5							
78.7	343.9	952.4	-	-	-	-	-	-	-	-	-	-	-	-	-	78.7							
82.0	330.7	937.0	928.1	319.7	869.7	-	-	-	-	-	-	-	-	-	-	82.0							
85.3	317.5	921.5	928.1	306.4	857.6	-	-	-	-	-	-	-	-	-	-	85.3							
88.6	306.4	905.0	928.1	295.4	845.5	835.6	284.4	785.9	-	-	-	-	-	-	-	88.6							
91.9	295.4	890.7	928.1	284.4	833.3	835.6	273.4	776.0	-	-	-	-	-	-	-	91.9							
95.1	285.5	873.0	925.9	274.5	821.2	835.6	263.5	765.0	754.0	242.5	653.7	-	-	-	-	95.1							
98.4	275.6	857.6	923.7	264.6	809.1	835.6	253.5	756.2	754.0	233.7	648.2	-	-	-	-	98.4							
108.3	247.5	809.6	913.8	239.8	768.9	835.6	228.7	724.2	754.0	210.5	628.3	617.3	193.3	532.8	-	108.3							
111.5	238.1	793.7	908.3	231.5	756.2	835.6	220.5	714.3	754.0	202.8	621.7	617.3	186.3	529.1	-	111.5							
121.4	210.0	745.7	855.4	204.2	717.6	822.3	195.7	680.7	754.0	182.2	601.9	617.3	168.9	517.5	507.1	121.4							
124.7	200.6	729.7	826.7	195.1	705.5	817.9	187.4	670.2	754.0	175.3	595.2	617.3	163.1	513.7	507.1	124.7							
137.8	170.9	648.2	729.7	166.4	652.6	734.1	158.7	628.3	738.5	147.7	566.6	617.3	136.7	493.8	507.1	137.8							
147.6	153.2	533.5	668.6	149.1	599.7	673.0	141.4	593.0	677.4	129.5	543.4	615.6	120.2	480.6	507.1	147.6							
150.9	-	-	648.2	143.3	582.0	652.6	135.6	584.2	657.0	123.5	535.7	615.1	114.6	476.2	507.1	150.9							
157.5	-	-	614.0	133.9	529.1	618.4	126.2	549.0	621.7	114.4	520.3	604.1	105.4	464.1	507.1	157.5							
164.0	-	-	579.8	124.6	476.2	584.2	116.8	513.7	586.4	105.4	507.1	593.0	96.1	454.2	507.1	164.0							
167.3	-	-	562.2	120.2	445.3	568.8	113.0	492.7	571.0	101.5	497.7	577.6	92.2	448.6	505.4	167.3							
177.2	-	-	518.1	-	-	524.7	101.4	429.9	526.9	89.7	476.2	531.3	80.5	432.1	500.4	177.2							
187.0	-	-	480.1	-	-	485.0	91.9	363.8	487.2	79.8	431.6	491.6	70.9	418.9	486.5	187.0							
190.3	-	-	467.4	-	-	471.8	-	-	474.0	76.5	416.7	478.4	67.7	414.5	480.6	190.3							
203.4	-	-	421.1	-	-	425.5	-	-	427.7	65.7	361.6	432.1	56.4	385.8	434.3	203.4							
213.3	-	-	391.0	-	-	395.7	-	-	399.0	59.1	323.5	402.3	49.2	352.7	404.5	213.3							
216.5	-	-	381.4	-	-	385.8	-	-	388.0	56.9	310.9	392.4	46.7	341.7	394.6	216.5							
223.1	-	-	363.8	-	-	368.2	-	-	370.4	53.1	282.2	374.8	42.8	321.9	377.0	223.1							
229.7	-	-	346.1	-	-	350.5	-	-	352.7	-	-	357.1	38.8	302.0	359.4	229.7							
242.8	-	-	315.3	-	-	319.7	-	-	321.9	-	-	324.1	32.0	264.6	326.3	242.8							
252.6	-	-	293.2	-	-	298.2	-	-	300.4	-	-	302.6	27.7	236.4	304.8	252.6							
255.9	-	-	286.6	-	-	291.0	-	-	293.2	-	-	295.4	26.2	227.1	297.6	255.9							
262.5	-	-	274.8	-	-	278.2	-	-	280.0	-	-	283.7	23.8	208.3	284.4	262.5							
269.0	-	-	263.1	-	-	265.9	-	-	267.9	-	-	271.2	-	-	271.2	269.0							
282.2	-	-	240.7	-	-	243.2	-	-	245.4	-	-	247.7	-	-	249.1	282.2							
295.3	-	-	219.4	-	-	222.7	-	-	224.9	-	-	227.1	-	-	227.1	295.3							
308.4	-	-	200.6	-	-	203.9	-	-	205.5	-	-	207.2	-	-	208.0	308.4							
321.5	-	-	183.7	-	-	185.9	-	-	187.8	-	-	189.2	-	-	189.8	321.5							
334.6	-	-	167.6	-	-	169.8	-	-	170.9	-	-	173.1	-	-	173.1	334.6							
347.8	-	-	152.1	-	-	155.8	-	-	156.2	-	-	157.6	-	-	157.6	347.8							
360.9	-	-	133.7	-	-	141.1	-	-	142.6	-	-	143.3	-	-	143.3	360.9							
374.0	-	-	112.4	-	-	125.7	-	-	130.1	-	-	130.1	-	-	130.1	374.0							
387.1	-	-	-	-	-	105.8	-	-	114.3	-	-	118.3	-	-	118.3	387.1							
393.7	-	-	-	-	-	95.9	-	-	106.5	-	-	112.4	-	-	112.4	393.7							
400.3	-	-	-	-	-	-	-	-	97.3	-	-	107.1	-	-	106.9	400.3							
413.4	-	-	-	-	-	-	-	-	78.9	-	-	95.7	-	-	96.3	413.4							
426.5	-	-	-	-	-	-	-	-	-	-	-	80.1	-	-	87.7	426.5							
439.6	-	-	-	-	-	-	-	-	-	-	-	64.5	-	-	77.8	439.6							
449.5	-	-	-	-	-	-	-	-	-	-	-	52.7	-	-	69.6	449.5							
452.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	66.8	452.8							
465.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53.1	465.9							
479.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39.4	479.0							
488.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28.9	488.8							

0 lb 242,500 lb 374,800 lb 595,300 lb 815,800 lb 992,100 lb 1,191,000 lb

\* Main boom angle 87°

# Operation

# SWSL\_2, SFSL\_2

463 klb + 44.1 klb ZB 49.2-78.7 ft 31.5 ft 32.2 ft/s 360° ASME B30.5															
288.7 ft															
275.6 ft			315.0 ft			334.6 ft			354.3 ft			374.0 ft			
SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	
0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb	
87°/85°		15°		87°/85°		15°		87°/85°		15°		87°/85°		15°	
ft													1,000 lb	ft	
91.9	240.3*	434.3*	-	-	-	-	-	-	-	-	-	-	-	-	91.9
98.4	222.7*	429.9*	-	-	-	-	-	-	-	-	-	-	-	-	98.4
101.7	215.5*	427.1*	-	201.7*	352.7*	-	-	-	-	-	-	-	-	-	101.7
105.0	208.3*	424.4*	-	195.1*	351.3*	-	186.3*	315.3*	-	-	-	-	-	-	105.0
111.5	173.1	440.9	-	181.9*	348.3*	-	173.1*	310.9*	-	169.8*	277.8*	-	-	-	111.5
114.8	167.3	438.7	-	175.8*	346.7*	-	167.3*	309.2*	-	164.0*	276.7*	-	155.4*	246.9*	114.8
124.7	149.9	432.1	-	138.9	354.9	-	149.9*	304.2*	-	146.6*	273.4*	-	140.0*	242.5*	124.7
134.5	132.6	423.8	416.7	124.8	350.0	-	116.8	310.1	-	113.8	276.7	-	125.9*	237.5*	134.5
137.8	126.8	421.1	416.7	120.2	348.3	-	112.4	308.6	-	109.6	275.6	-	102.3	242.5	137.8
147.6	110.4	412.8	416.7	103.3	343.4	339.5	98.1	305.3	-	94.2	270.6	-	90.9	239.2	147.6
150.9	104.9	410.1	416.7	97.7	341.7	339.5	93.3	304.2	-	89.1	269.0	-	87.1	238.1	150.9
154.2	100.6	406.8	416.7	93.1	340.1	339.5	89.1	303.1	299.8	85.0	267.9	-	82.7	237.0	154.2
160.8	91.9	400.1	416.7	84.1	336.8	339.5	80.9	300.9	299.8	76.8	265.7	264.6	74.0	234.8	160.8
164.0	87.5	396.8	416.7	79.6	335.1	339.5	76.7	299.8	299.8	72.8	264.6	264.6	69.7	233.7	164.0
170.6	79.9	391.3	416.7	72.5	330.7	339.5	69.3	296.5	299.8	65.7	262.4	264.6	62.3	232.6	170.6
177.2	72.3	385.8	416.7	65.5	326.3	339.5	61.9	293.2	299.8	58.6	260.1	264.6	54.9	231.5	177.2
190.3	59.3	370.4	410.1	52.9	317.5	337.3	49.2	288.8	297.6	46.1	255.7	260.1	42.5	227.1	190.3
203.4	48.1	354.7	403.4	41.9	308.6	332.9	38.1	282.2	293.2	35.1	251.3	257.9	32.6	222.7	203.4
216.5	38.8	341.7	396.8	32.4	299.8	326.3	29.1	273.4	288.8	25.8	246.9	253.5	23.6	219.4	216.5
229.7	30.6	319.7	361.6	24.3	291.0	321.9	21.2	266.8	284.4	18.1	242.5	251.3	15.4	215.0	229.7
242.8	23.4	286.6	328.5	17.2	280.0	313.1	27.3*	257.9	280.0	24.7*	235.9	246.9	22.0*	210.5	242.8
255.9	17.2	257.9	299.8	23.8*	264.6	302.0	20.5*	251.3	273.4	17.9*	231.5	242.5	15.4*	206.1	255.9
259.2	15.7	250.8	293.2	22.3*	258.5	296.9	19.0*	248.6	271.9	16.3*	229.8	241.4	-	205.0	259.2
265.7	25.7*	236.4	280.0	19.2*	246.4	286.6	15.9*	243.1	269.0	-	226.5	239.2	-	202.3	265.7
269.0	24.3*	229.3	273.4	17.6*	240.3	281.5	-	240.3	267.5	-	224.9	238.1	-	200.6	269.0
272.3	23.1*	222.7	266.8	16.3*	234.8	276.3	-	235.3	266.0	-	222.9	237.0	-	199.5	272.3
282.2	19.6*	202.8	249.1	-	218.3	261.0	-	220.5	260.1	-	217.2	233.7	-	196.2	282.2
285.4	16.3*	195.9	243.6	-	212.7	255.3	-	215.5	255.2	-	214.2	232.0	-	194.6	285.4
288.7	-	189.0	238.1	-	207.2	249.6	-	210.5	250.2	-	211.3	230.4	-	192.9	288.7
295.3	-	175.3	227.1	-	196.2	238.1	-	199.5	240.3	-	203.9	227.1	-	189.6	295.3
298.6	-	167.6	222.5	-	191.0	233.3	-	195.1	235.3	-	199.5	224.5	-	188.2	298.6
308.4	-	-	208.7	-	175.3	219.0	-	180.8	220.5	-	185.2	216.8	-	184.1	308.4
321.5	-	-	190.7	-	155.4	200.6	-	162.0	201.7	-	167.6	203.3	-	170.9	321.5
328.1	-	-	182.4	-	145.1	191.8	-	153.2	192.9	-	159.3	194.9	-	162.6	328.1
334.6	-	-	174.2	-	134.5	184.1	-	144.4	184.1	-	151.0	187.4	-	154.3	334.6
337.9	-	-	170.3	-	129.0	180.2	-	140.0	180.2	-	147.7	183.5	-	150.7	337.9
347.8	-	-	158.7	-	-	168.7	-	126.8	168.7	-	135.6	172.0	-	140.0	347.8
357.6	-	-	147.7	-	-	157.4	-	111.3	157.6	-	124.0	160.8	-	128.4	357.6
360.9	-	-	144.4	-	-	154.0	-	-	154.3	-	120.2	157.3	-	124.6	360.9
364.2	-	-	141.1	-	-	150.5	-	-	151.0	-	115.8	153.8	-	121.0	364.2
374.0	-	-	131.2	-	-	140.0	-	-	141.1	-	102.7	143.3	-	110.2	374.0
377.3	-	-	128.2	-	-	137.1	-	-	138.0	-	98.1	140.2	-	106.8	377.3
383.9	-	-	122.4	-	-	131.2	-	-	131.7	-	-	133.9	-	99.9	383.9
387.1	-	-	119.4	-	-	128.2	-	-	128.6	-	-	130.8	-	96.1	387.1
393.7	-	-	113.5	-	-	122.4	-	-	122.4	-	-	124.6	-	88.2	393.7
400.3	-	-	107.7	-	-	116.5	-	-	116.7	-	-	119.0	-	-	400.3
413.4	-	-	96.8	-	-	105.2	-	-	105.4	-	-	107.8	-	-	413.4
426.5	-	-	88.0	-	-	95.0	-	-	95.2	-	-	97.6	-	-	426.5
439.6	-	-	79.9	-	-	86.1	-	-	86.2	-	-	88.4	-	-	439.6
452.8	-	-	72.5	-	-	78.3	-	-	78.3	-	-	80.0	-	-	452.8
465.9	-	-	64.3	-	-	70.3	-	-	69.0	-	-	71.5	-	-	465.9
479.0	-	-	54.3	-	-	61.9	-	-	60.0	-	-	62.8	-	-	479.0
492.1	-	-	42.3	-	-	53.1	-	-	51.1	-	-	54.0	-	-	492.1
518.4	-	-	18.3	-	-	33.0	-	-	34.8	-	-	38.1	-	-	518.4
531.5	-	-	-	-	-	22.7	-	-	26.2	-	-	30.4	-	-	531.5
538.1	-	-	-	-	-	17.4	-	-	21.4	-	-	26.4	-	-	538.1
544.6	-	-	-	-	-	-	-	-	16.5	-	-	22.3	-	-	544.6
554.5	-	-	-	-	-	-	-	-	-	-	-	15.9	-	-	554.5

For explanations see page 131

# Operation

# SWSL\_2, SFSL\_2

463 klb +  44.1 klb ZB  49.2-78.7 ft  31.5 ft  32.2 ft/s  360° ASME B30.5															
308.4 ft															
118.1 ft		137.8 ft		157.5 ft		196.9 ft		236.2 ft							
SWSL_2		SFSL_2		SWSL_2		SFSL_2		SWSL_2		SFSL_2		SWSL_2		SFSL_2	
0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb	
87°/85°		15°		87°/85°		15°		87°/85°		15°		87°/85°		15°	
ft	1,000 lb												ft		
59.1	458.6*	875.2*	-	-	-	-	-	-	-	-	-	-	-	-	59.1
62.3	436.5*	862.0*	-	423.3*	795.9*	-	-	-	-	-	-	-	-	-	62.3
65.6	416.7*	848.8*	-	403.4*	784.8*	-	388.0*	723.1*	-	-	-	-	-	-	65.6
72.2	348.3	897.3	-	368.2*	762.8*	-	354.9*	707.7*	-	-	-	-	-	-	72.2
75.5	334.0	884.1	-	353.8*	750.7*	-	340.6*	697.8*	-	315.3*	593.0*	-	-	-	75.5
78.7	319.7	870.8	-	308.6	806.9	-	326.3*	687.8*	-	304.2*	588.6*	-	-	-	78.7
82.0	307.5	856.5	840.0	296.5	795.9	-	284.4	734.1	-	292.1*	582.0*	-	-	-	82.0
85.3	295.4	842.2	840.0	284.4	784.8	-	273.4	727.5	-	280.0*	575.4*	-	260.1*	487.2*	85.3
88.6	284.4	827.8	840.0	274.5	773.8	758.4	262.4	718.7	-	270.1*	568.8*	-	250.2*	482.8*	88.6
91.9	273.4	813.5	840.0	264.6	762.8	758.4	251.3	709.9	-	231.5	604.1	-	240.3*	478.4*	91.9
95.1	264.6	799.2	836.7	254.6	750.7	758.4	242.5	700.0	683.4	223.2	598.6	-	231.5*	475.1*	95.1
98.4	255.7	784.8	833.3	244.7	738.5	758.4	233.7	690.0	683.4	215.0	593.0	-	222.7*	471.8*	98.4
111.5	222.7	725.3	815.7	215.0	692.3	749.6	203.9	650.4	683.4	186.3	568.8	564.4	169.8	485.0	111.5
124.7	194.0	674.6	793.7	188.5	643.8	734.1	179.7	612.9	679.0	162.0	542.3	564.4	147.7	469.6	124.7
137.8	165.3	626.1	714.3	160.9	601.9	709.9	153.2	571.0	661.4	142.2	515.9	560.0	127.9	451.9	137.8
150.9	137.8	515.9	632.7	137.8	560.0	634.9	130.1	535.7	637.1	119.0	487.2	549.0	106.7	432.1	150.9
157.5	-	-	597.5	128.4	526.9	600.8	120.7	518.1	604.1	110.0	474.0	543.4	97.7	422.2	157.5
164.0	-	-	562.2	119.0	493.8	566.6	111.3	502.7	571.0	101.0	460.8	540.1	88.6	412.3	164.0
167.3	-	-	547.3	115.7	465.2	551.2	107.7	488.3	555.6	97.2	454.2	531.9	84.9	406.8	167.3
177.2	-	-	502.7	-	-	507.1	96.8	445.3	511.5	85.8	434.3	518.1	73.6	392.4	177.2
187.0	-	-	463.0	-	-	467.4	87.5	379.2	471.8	76.2	416.1	478.4	64.2	377.5	187.0
190.3	-	-	449.7	-	-	454.2	-	-	458.6	73.0	410.1	465.2	61.1	372.6	190.3
203.4	-	-	403.4	-	-	407.9	-	-	412.3	62.4	372.6	418.9	50.3	352.7	203.4
213.3	-	-	373.7	-	-	377.7	-	-	380.7	55.8	332.9	385.8	43.3	339.5	213.3
216.5	-	-	363.8	-	-	368.2	-	-	370.4	53.6	319.7	377.0	41.0	335.1	216.5
226.4	-	-	337.3	-	-	341.7	-	-	343.9	48.3	277.8	350.5	35.1	313.6	226.4
229.7	-	-	328.5	-	-	332.9	-	-	335.1	-	-	341.7	33.1	306.4	229.7
242.8	-	-	297.6	-	-	299.8	-	-	304.2	-	-	308.6	26.5	269.0	242.8
252.6	-	-	276.3	-	-	280.0	-	-	282.7	-	-	287.2	22.3	242.5	252.6
255.9	-	-	269.0	-	-	273.4	-	-	275.6	-	-	280.0	20.9	233.7	255.9
262.5	-	-	257.2	-	-	260.9	-	-	263.1	-	-	267.2	18.7	213.8	262.5
269.0	-	-	245.4	-	-	248.4	-	-	250.6	-	-	254.9	-	-	269.0
282.2	-	-	222.7	-	-	224.9	-	-	227.1	-	-	231.5	-	-	282.2
295.3	-	-	200.6	-	-	202.8	-	-	205.0	-	-	209.4	-	-	295.3
308.4	-	-	182.2	-	-	184.1	-	-	186.3	-	-	189.6	-	-	308.4
321.5	-	-	165.0	-	-	166.8	-	-	169.0	-	-	172.3	-	-	321.5
334.6	-	-	148.8	-	-	149.9	-	-	152.1	-	-	155.4	-	-	334.6
347.8	-	-	134.1	-	-	135.2	-	-	137.4	-	-	140.0	-	-	347.8
360.9	-	-	118.7	-	-	121.5	-	-	123.5	-	-	125.7	-	-	360.9
374.0	-	-	102.5	-	-	108.9	-	-	110.2	-	-	112.4	-	-	374.0
387.1	-	-	82.8	-	-	95.6	-	-	98.7	-	-	100.5	-	-	387.1
390.4	-	-	77.8	-	-	91.1	-	-	96.2	-	-	98.0	-	-	390.4
400.3	-	-	-	-	-	77.5	-	-	85.7	-	-	91.0	-	-	400.3
410.1	-	-	-	-	-	63.7	-	-	73.7	-	-	84.3	-	-	410.1
413.4	-	-	-	-	-	-	-	-	69.7	-	-	82.0	-	-	413.4
426.5	-	-	-	-	-	-	-	-	52.6	-	-	68.2	-	-	426.5
429.8	-	-	-	-	-	-	-	-	48.3	-	-	64.7	-	-	429.8
439.6	-	-	-	-	-	-	-	-	-	-	-	54.1	-	-	439.6
452.8	-	-	-	-	-	-	-	-	-	-	-	39.7	-	-	452.8
465.9	-	-	-	-	-	-	-	-	-	-	-	24.9	-	-	465.9
479.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	479.0
488.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	488.8

0 lb  
 242,500 lb  
 374,800 lb  
 595,300 lb  
 815,800 lb  
 992,100 lb  
 1,191,000 lb

\* Main boom angle 87°

# Operation

# SWSL\_2, SFSL\_2

463 klb + 44.1 klb ZB														49.2-78.7 ft		31.5 ft		32.2 ft/s		360°		ASME B30.5	
308.4 ft																							
275.6 ft			315.0 ft			334.6 ft			354.3 ft			374.0 ft											
SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2									
0 lb		0-1,191 klb	0 lb		0-1,191 klb	0 lb		0-1,191 klb	0 lb		0-1,191 klb	0 lb		0-1,191 klb									
87°/85°		15°	87°/85°		15°	87°/85°		15°	87°/85°		15°	87°/85°		15°									
ft														1,000 lb		ft							
95.1	217.2*	399.0*	-	-	-	-	-	-	-	-	-	-	-	-	-	95.1							
98.4	208.3*	396.8*	-	-	-	-	-	-	-	-	-	-	-	-	-	98.4							
101.7	201.4*	394.6*	-	188.5*	328.5*	-	-	-	-	-	-	-	-	-	-	101.7							
108.3	187.7*	390.2*	-	175.3*	324.1*	-	166.4*	293.2*	-	-	-	-	-	-	-	108.3							
111.5	180.8*	388.0*	-	168.7*	321.9*	-	160.9*	291.0*	-	156.5*	262.4*	-	-	-	-	111.5							
114.8	149.9	403.4	-	163.1*	320.2*	-	155.4*	289.9*	-	151.3*	260.7*	-	-	-	-	114.8							
124.7	134.5	396.8	-	123.5	328.5	-	138.9*	286.6*	-	135.6*	255.7*	-	143.3*	233.7*	-	124.7							
137.8	116.8	385.8	381.4	106.7	321.9	-	99.4	288.8	-	96.1	257.9	-	89.1	229.3	-	137.8							
150.9	100.8	374.8	381.4	92.4	315.3	310.9	84.9	284.4	-	82.2	253.5	-	75.6	224.9	-	150.9							
157.5	92.3	368.2	381.4	84.3	312.0	310.9	76.9	281.1	277.8	75.8	251.3	-	68.9	222.7	-	157.5							
164.0	83.8	361.6	381.4	76.3	308.6	310.9	69.0	277.8	277.8	69.4	249.1	249.1	62.2	220.5	-	164.0							
170.6	76.5	354.9	379.2	69.3	304.2	309.7	61.9	275.6	277.8	62.7	246.9	249.1	55.0	218.8	217.2	170.6							
177.2	69.2	348.3	377.0	62.4	299.8	308.6	54.9	273.4	277.8	56.0	244.7	249.1	47.8	217.2	217.2	177.2							
190.3	56.4	332.9	370.4	50.5	291.0	306.4	42.5	264.6	275.6	43.9	240.3	246.9	35.9	213.8	216.1	190.3							
203.4	45.6	319.7	363.8	39.9	282.2	299.8	32.0	257.9	271.2	33.3	235.9	242.5	26.2	210.5	212.7	203.4							
216.5	36.6	306.4	354.9	30.6	271.2	295.4	23.4	249.1	266.8	24.3	229.3	240.3	17.9	206.1	210.5	216.5							
229.7	28.7	291.0	341.7	22.7	260.1	288.8	15.7	240.3	262.4	16.8	224.9	235.9	26.0*	201.7	208.3	229.7							
242.8	21.6	275.6	315.3	15.9	251.3	282.2	23.4*	233.7	255.7	24.9*	216.1	231.5	18.5*	198.4	206.1	242.8							
246.1	20.1	272.3	308.1	28.9*	248.6	280.5	21.7*	230.9	254.3	23.2*	214.7	230.4	16.8*	196.5	205.0	246.1							
255.9	15.4	260.1	286.6	23.8*	240.3	275.6	16.5*	222.7	249.1	18.1*	210.5	227.1	-	191.8	201.7	255.9							
259.2	28.1*	253.5	280.0	22.3*	237.5	273.4	-	220.5	248.0	16.5*	208.3	225.6	-	190.3	200.6	259.2							
269.0	23.8*	233.7	260.1	17.6*	229.3	266.0	-	213.8	243.8	-	202.8	221.2	-	186.3	197.3	269.0							
272.3	22.6*	226.8	253.5	16.3*	226.5	264.2	-	211.4	242.5	-	200.6	219.7	-	184.8	196.2	272.3							
282.2	16.5*	206.1	235.9	-	218.3	250.6	-	203.9	235.9	-	194.0	215.8	-	180.8	192.9	282.2							
292.0	-	186.3	219.4	-	204.2	233.0	-	196.5	229.3	-	188.2	211.9	-	175.0	189.6	292.0							
295.3	-	179.7	213.8	-	199.5	227.1	-	194.0	227.1	-	186.3	210.5	-	173.1	188.5	295.3							
301.8	-	164.2	203.9	-	189.0	217.5	-	188.5	217.2	-	181.9	206.1	-	169.2	185.9	301.8							
308.4	-	-	194.0	-	178.6	208.0	-	183.0	207.2	-	177.5	202.8	-	165.3	183.4	308.4							
321.5	-	-	175.6	-	158.7	188.9	-	164.2	188.5	-	169.8	190.1	-	158.7	177.5	321.5							
328.1	-	-	167.2	-	148.8	180.0	-	155.4	179.7	-	162.6	183.0	-	155.4	174.2	328.1							
334.6	-	-	158.7	-	137.8	172.0	-	146.6	170.9	-	155.4	174.2	-	152.1	170.9	334.6							
341.2	-	-	151.0	-	126.8	164.2	-	137.8	163.1	-	147.7	166.4	-	146.6	163.9	341.2							
347.8	-	-	143.3	-	-	156.5	-	129.0	155.4	-	140.0	158.7	-	141.1	156.9	347.8							
357.6	-	-	132.3	-	-	145.3	-	114.6	144.2	-	127.6	147.5	-	130.3	146.4	357.6							
360.9	-	-	129.0	-	-	141.8	-	-	140.7	-	123.5	144.0	-	126.8	142.9	360.9							
367.5	-	-	122.4	-	-	134.8	-	-	133.7	-	115.4	137.1	-	120.2	136.0	367.5							
374.0	-	-	115.7	-	-	127.9	-	-	126.8	-	106.9	130.1	-	112.4	129.0	374.0							
377.3	-	-	112.7	-	-	124.7	-	-	123.7	-	102.3	126.9	-	109.0	125.8	377.3							
383.9	-	-	106.6	-	-	118.5	-	-	117.6	-	-	120.7	-	102.1	119.6	383.9							
387.1	-	-	103.5	-	-	115.4	-	-	114.6	-	-	117.6	-	98.3	116.5	387.1							
397.0	-	-	95.0	-	-	106.3	-	-	105.5	-	-	108.5	-	86.4	107.4	397.0							
400.3	-	-	92.8	-	-	103.4	-	-	102.5	-	-	105.6	-	-	104.6	400.3							
413.4	-	-	83.8	-	-	92.2	-	-	91.7	-	-	94.4	-	-	93.5	413.4							
426.5	-	-	75.5	-	-	83.8	-	-	83.2	-	-	85.5	-	-	84.8	426.5							
439.6	-	-	67.7	-	-	75.7	-	-	75.1	-	-	77.2	-	-	76.6	439.6							
452.8	-	-	60.2	-	-	67.9	-	-	67.5	-	-	69.4	-	-	68.8	452.8							
465.9	-	-	50.8	-	-	59.5	-	-	60.0	-	-	62.4	-	-	60.8	465.9							
479.0	-	-	40.5	-	-	50.2	-	-	51.6	-	-	54.6	-	-	52.5	479.0							
492.1	-	-	29.3	-	-	39.9	-	-	41.9	-	-	46.1	-	-	44.1	492.1							
508.5	-	-	15.4	-	-	27.4	-	-	29.9	-	-	35.8	-	-	34.2	508.5							
518.4	-	-	-	-	-	20.1	-	-	22.8	-	-	29.2	-	-	28.4	518.4							
521.7	-	-	-	-	-	17.6	-	-	20.4	-	-	27.0	-	-	26.5	521.7							
528.2	-	-	-	-	-	-	-	-	15.7	-	-	22.5	-	-	22.6	528.2							
531.5	-	-	-	-	-	-	-	-	-	-	-	20.3	-	-	20.7	531.5							
538.1	-	-	-	-	-	-	-	-	-	-	-	15.7	-	-	16.3	538.1							

\* Main boom angle 87°



0 lb   242,500 lb   374,800 lb   595,300 lb   815,800 lb   992,100 lb   1,191,000 lb

# Operation

# SWSL\_2, SFSL\_2

<b>463 klb + 44.1 klb ZB</b> <b>49.2-78.7 ft</b> <b>31.5 ft</b> <b>32.2 ft/s</b> <b>360°</b> <b>ASME B30.5</b>															
321.5 ft															
118.1 ft			137.8 ft			157.5 ft			196.9 ft			236.2 ft			
SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	
0 lb		0-1,191 klb	0 lb		0-1,191 klb	0 lb		0-1,191 klb	0 lb		0-1,191 klb	0 lb		0-1,191 klb	
ft	1,000 lb													ft	
59.1	443.1*	866.4*	-	-	-	-	-	-	-	-	-	-	-	59.1	
62.3	423.3*	853.2*	-	410.1*	789.3*	-	-	-	-	-	-	-	-	62.3	
65.6	403.4*	840.0*	-	390.2*	778.2*	-	-	-	-	-	-	-	-	65.6	
68.9	386.9*	825.6*	-	373.7*	768.3*	-	359.4*	712.1*	-	-	-	-	-	68.9	
72.2	370.4*	811.3*	-	357.1*	758.4*	-	343.9*	703.3*	-	-	-	-	-	72.2	
75.5	319.7	870.8	-	343.9*	746.3*	-	330.7*	694.5*	-	306.4*	593.0*	-	-	75.5	
78.7	306.4	857.6	-	295.4	798.1	-	317.5*	685.6*	-	-	-	-	-	78.7	
85.3	284.4	828.9	817.9	273.4	776.0	-	260.1	718.7	-	271.2*	575.4*	-	251.3*	487.2*	85.3
91.9	262.4	795.9	815.7	253.5	751.8	743.0	242.5	701.1	-	251.3*	562.2*	-	233.7*	478.4*	91.9
98.4	244.7	762.8	802.5	235.9	727.5	743.0	224.9	683.4	672.4	205.0	588.6	-	216.1*	471.8*	98.4
111.5	213.8	707.7	782.6	206.1	674.6	720.9	196.2	637.1	665.8	177.5	564.4	555.6	162.0	482.8	111.5
124.7	186.3	654.8	756.2	181.9	626.1	703.3	172.0	595.2	650.4	155.4	535.7	551.2	140.0	465.2	124.7
137.8	158.7	604.1	707.7	154.3	584.2	681.2	146.6	555.6	630.5	135.6	502.7	540.1	121.3	447.5	137.8
150.9	136.7	531.3	623.9	131.2	542.3	632.7	124.6	520.3	610.7	113.5	474.0	529.1	100.8	423.3	150.9
157.5	-	-	588.6	122.4	522.5	597.5	115.4	502.7	582.0	104.5	460.8	521.4	91.9	412.3	157.5
164.0	-	-	555.6	113.5	502.7	562.2	106.3	485.0	564.4	95.5	447.5	513.7	83.1	401.2	164.0
170.6	-	-	525.8	106.3	445.3	532.4	99.0	468.5	534.6	88.1	433.2	506.0	75.7	391.3	170.6
177.2	-	-	496.0	-	-	502.7	91.7	451.9	504.9	80.7	418.9	498.2	68.3	381.4	177.2
190.3	-	-	443.1	-	-	449.7	79.8	363.8	451.9	68.3	394.6	458.6	56.2	359.4	190.3
203.4	-	-	396.8	-	-	403.4	-	-	405.7	58.0	370.4	412.3	45.6	339.5	203.4
216.5	-	-	357.1	-	-	363.8	-	-	363.8	49.4	324.1	370.4	36.6	321.9	216.5
226.4	-	-	330.7	-	-	337.3	-	-	337.3	44.1	284.4	343.9	31.0	308.6	226.4
229.7	-	-	321.9	-	-	328.5	-	-	328.5	-	-	335.1	29.1	304.2	229.7
242.8	-	-	291.0	-	-	295.4	-	-	297.6	-	-	302.0	22.7	273.4	242.8
252.6	-	-	269.5	-	-	275.6	-	-	275.6	-	-	280.0	18.6	245.4	252.6
255.9	-	-	262.4	-	-	269.0	-	-	269.0	-	-	273.4	17.2	235.9	255.9
259.2	-	-	256.1	-	-	262.7	-	-	262.7	-	-	267.1	16.1	227.1	259.2
265.7	-	-	243.6	-	-	250.2	-	-	250.2	-	-	254.6	-	207.2	265.7
269.0	-	-	237.4	-	-	244.0	-	-	244.0	-	-	248.4	-	250.6	269.0
282.2	-	-	214.4	-	-	220.0	-	-	220.5	-	-	224.9	-	227.1	282.2
295.3	-	-	194.0	-	-	198.4	-	-	198.4	-	-	202.8	-	205.0	295.3
308.4	-	-	174.9	-	-	179.3	-	-	179.3	-	-	183.4	-	185.7	308.4
321.5	-	-	157.3	-	-	161.7	-	-	161.7	-	-	165.7	-	167.6	321.5
334.6	-	-	141.1	-	-	145.5	-	-	145.5	-	-	148.8	-	149.9	334.6
347.8	-	-	126.4	-	-	130.8	-	-	130.1	-	-	133.4	-	135.2	347.8
360.9	-	-	112.5	-	-	116.8	-	-	116.0	-	-	119.1	-	121.0	360.9
374.0	-	-	99.9	-	-	103.4	-	-	103.2	-	-	106.0	-	107.4	374.0
387.1	-	-	81.5	-	-	90.3	-	-	93.3	-	-	95.5	-	96.0	387.1
400.3	-	-	63.1	-	-	75.3	-	-	81.3	-	-	85.7	-	86.6	400.3
403.5	-	-	58.4	-	-	71.1	-	-	77.7	-	-	83.4	-	84.3	403.5
413.4	-	-	-	-	-	58.4	-	-	67.0	-	-	76.7	-	77.6	413.4
423.2	-	-	-	-	-	45.4	-	-	55.1	-	-	67.0	-	71.4	423.2
426.5	-	-	-	-	-	-	-	-	51.1	-	-	63.8	-	69.4	426.5
439.6	-	-	-	-	-	-	-	-	35.3	-	-	50.5	-	59.6	439.6
452.8	-	-	-	-	-	-	-	-	-	-	-	36.8	-	48.3	452.8
465.9	-	-	-	-	-	-	-	-	-	-	-	23.2	-	36.2	465.9
472.4	-	-	-	-	-	-	-	-	-	-	-	16.3	-	30.2	472.4
479.0	-	-	-	-	-	-	-	-	-	-	-	-	-	24.3	479.0
488.8	-	-	-	-	-	-	-	-	-	-	-	-	-	15.4	488.8

0 lb 242,500 lb 374,800 lb 595,300 lb 815,800 lb 992,100 lb 1,191,000 lb

\* Main boom angle 87°

# Operation

# SWSL\_2, SFSL\_2

463 klb +  44.1 klb ZB  49.2-78.7 ft  31.5 ft  32.2 ft/s 360° ASME B30.5																			
321.5 ft																			
275.6 ft				315.0 ft				334.6 ft				354.3 ft				374.0 ft			
SWSL_2		SFSL_2		SWSL_2		SFSL_2		SWSL_2		SFSL_2		SWSL_2		SFSL_2		SWSL_2		SFSL_2	
0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb	
87°/85°		15°		87°/85°		15°		87°/85°		15°		87°/85°		15°		87°/85°		15°	
1,000 lb																			
ft															ft				
95.1	208.3*	401.2*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95.1
98.4	200.6*	399.0*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98.4
101.7	194.0*	396.3*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101.7
108.3	180.8*	390.8*	-	180.8*	328.5*	-	-	159.8*	293.2*	-	-	-	-	-	-	-	-	-	108.3
111.5	174.2*	388.0*	-	162.0*	324.1*	-	-	154.3*	293.2*	-	149.9*	264.6*	-	-	-	-	-	-	111.5
114.8	142.2*	403.4*	-	156.5*	322.4*	-	-	148.8*	291.6*	-	144.7*	262.9*	-	136.7*	235.9*	-	-	-	114.8
124.7	127.9	394.6	-	115.7	328.5*	-	-	132.3*	286.6*	-	129.0*	257.9*	-	122.4*	231.5*	-	-	-	124.7
137.8	110.2	385.8	377.0	100.1	321.9	-	-	92.6	288.8	-	89.3	260.1	-	104.9*	224.9*	-	-	-	137.8
150.9	95.7	372.6	377.0	86.0	315.3	308.6	-	78.7	284.4	-	76.3	255.7	-	69.4	227.1	-	-	-	150.9
157.5	87.0	364.9	375.9	78.4	310.9	308.6	-	71.1	281.1	275.6	70.1	253.5	-	63.1	224.9	-	-	-	157.5
164.0	78.3	357.1	374.8	70.8	306.4	308.6	-	63.5	277.8	275.6	63.9	251.3	246.9	56.7	222.7	-	-	-	164.0
170.6	71.0	348.3	371.5	63.9	302.0	306.4	-	56.7	274.5	275.6	57.0	249.1	246.9	49.7	221.0	219.4	-	-	170.6
177.2	63.7	341.7	368.2	57.1	297.6	304.2	-	49.8	271.2	275.6	50.0	246.9	246.9	42.8	219.4	218.3	-	-	177.2
190.3	51.8	326.3	361.6	45.6	288.8	302.0	-	37.7	262.4	271.2	38.6	242.5	244.7	31.1	216.1	217.2	-	-	190.3
203.4	41.4	310.9	352.7	35.3	273.4	295.4	-	27.6	253.5	266.8	29.1	235.9	242.5	21.8	211.6	213.8	-	-	203.4
216.5	32.4	293.2	341.7	26.5	264.6	288.8	-	19.0	244.7	262.4	20.5	227.1	238.1	31.1*	207.2	210.5	-	-	216.5
229.7	24.5	280.0	330.7	18.7	253.5	282.2	-	28.2*	235.9	255.7	29.3*	219.4	233.7	23.1*	200.6	208.3	-	-	229.7
242.8	17.9	264.6	313.1	27.8*	240.3	275.6	-	20.7*	224.9	251.3	22.0*	212.7	227.1	15.7*	195.1	205.0	-	-	242.8
252.6	28.5*	254.3	294.3	22.8*	232.0	269.0	-	15.7*	217.4	246.4	17.3*	206.1	223.8	-	190.1	200.9	-	-	252.6
255.9	26.9*	251.3	288.8	21.2*	229.3	266.8	-	-	215.0	244.7	15.7*	203.9	222.7	-	188.5	199.5	-	-	255.9
265.7	22.8*	239.8	269.0	16.8*	221.0	259.3	-	-	207.5	239.0	-	197.3	218.3	-	182.7	196.2	-	-	265.7
269.0	21.4*	235.9	262.4	-	218.3	256.6	-	-	205.0	237.2	-	195.1	216.8	-	180.8	195.1	-	-	269.0
282.2	16.5*	208.3	238.1	-	208.3	240.3	-	-	195.1	228.5	-	186.3	210.9	-	173.1	190.3	-	-	282.2
292.0	-	188.5	221.6	-	200.1	226.7	-	-	187.7	220.8	-	179.7	206.5	-	167.3	186.5	-	-	292.0
295.3	-	181.9	216.1	-	197.3	222.7	-	-	185.2	218.3	-	177.5	205.0	-	165.3	185.2	-	-	295.3
301.8	-	167.6	206.1	-	189.2	212.7	-	-	180.8	208.3	-	173.1	201.4	-	161.5	181.9	-	-	301.8
308.4	-	-	196.2	-	180.8	202.8	-	-	176.4	199.9	-	168.7	196.9	-	157.6	179.1	-	-	308.4
321.5	-	-	177.8	-	159.8	184.1	-	-	166.4	183.4	-	160.9	185.2	-	151.0	172.7	-	-	321.5
328.1	-	-	169.4	-	149.9	175.3	-	-	157.6	174.9	-	157.1	177.5	-	147.2	169.0	-	-	328.1
334.6	-	-	160.9	-	140.0	166.4	-	-	148.8	166.4	-	153.2	169.8	-	143.3	165.3	-	-	334.6
341.2	-	-	153.2	-	129.0	158.7	-	-	139.4	158.4	-	147.2	161.7	-	140.0	157.6	-	-	341.2
347.8	-	-	145.5	-	-	151.0	-	-	130.1	150.3	-	141.1	153.6	-	136.7	151.4	-	-	347.8
360.9	-	-	130.8	-	-	136.3	-	-	111.3	135.2	-	124.6	138.5	-	127.9	138.5	-	-	360.9
367.5	-	-	123.8	-	-	129.3	-	-	-	128.2	-	116.5	131.5	-	121.3	131.5	-	-	367.5
374.0	-	-	116.8	-	-	122.4	-	-	-	121.3	-	108.5	124.6	-	114.6	124.6	-	-	374.0
377.3	-	-	113.7	-	-	119.2	-	-	-	118.2	-	104.1	121.5	-	110.9	121.4	-	-	377.3
387.1	-	-	104.3	-	-	109.7	-	-	-	109.1	-	-	112.2	-	99.6	111.8	-	-	387.1
397.0	-	-	96.0	-	-	100.8	-	-	-	100.4	-	-	103.0	-	88.0	102.3	-	-	397.0
400.3	-	-	93.6	-	-	98.3	-	-	-	97.8	-	-	100.3	-	-	99.6	-	-	400.3
413.4	-	-	84.2	-	-	88.0	-	-	-	87.5	-	-	89.7	-	-	89.1	-	-	413.4
426.5	-	-	75.8	-	-	79.4	-	-	-	79.0	-	-	81.2	-	-	80.5	-	-	426.5
439.6	-	-	66.9	-	-	71.3	-	-	-	70.8	-	-	73.0	-	-	72.3	-	-	439.6
452.8	-	-	57.5	-	-	63.5	-	-	-	63.1	-	-	65.3	-	-	64.4	-	-	452.8
465.9	-	-	46.3	-	-	54.1	-	-	-	53.8	-	-	56.4	-	-	54.9	-	-	465.9
479.0	-	-	35.6	-	-	44.2	-	-	-	45.0	-	-	48.3	-	-	46.6	-	-	479.0
492.1	-	-	24.7	-	-	34.4	-	-	-	36.2	-	-	39.0	-	-	37.9	-	-	492.1
502.0	-	-	16.8	-	-	27.1	-	-	-	29.1	-	-	33.0	-	-	31.1	-	-	502.0
515.1	-	-	-	-	-	17.6	-	-	-	19.8	-	-	25.0	-	-	23.3	-	-	515.1
518.4	-	-	-	-	-	-	-	-	-	17.6	-	-	23.0	-	-	21.4	-	-	518.4
528.2	-	-	-	-	-	-	-	-	-	-	-	-	17.2	-	-	15.9	-	-	528.2

0 lb   242,500 lb   374,800 lb   595,300 lb   815,800 lb   992,100 lb   1,191,000 lb

\* Main boom angle 87°

# Operation

# SWSL\_2, SFSL\_2

463 klb +  44.1 klb ZB  49.2-78.7 ft  31.5 ft  32.2 ft/s 360° ASME B30.5														
341.2 ft														
118.1 ft			137.8 ft			157.5 ft			196.9 ft			236.2 ft		
SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		
0 lb		0-1,191 klb	0 lb		0-1,191 klb	0 lb		0-1,191 klb	0 lb		0-1,191 klb	0 lb		
87°/85°		15°	87°/85°		15°	87°/85°		15°	87°/85°		15°	87°/85°		
ft	1,000 lb													ft
65.6	-	-	-	374.8*	714.3*	-	-	-	-	-	-	-	-	65.6
68.9	-	-	-	359.4*	705.5*	-	343.9*	652.6*	-	-	-	-	-	68.9
72.2	-	-	-	343.9*	696.7*	-	328.5*	643.8*	-	-	-	-	-	72.2
78.7	-	-	-	315.3*	674.6*	-	304.2*	628.3*	-	280.0*	537.9*	-	-	78.7
85.3	-	-	-	257.9	707.7	-	246.9	657.0	-	257.9*	526.9*	-	240.3*	85.3
91.9	-	-	-	240.3	687.8	668.0	229.3	641.5	-	240.3*	513.7*	-	222.7*	91.9
98.4	-	-	-	222.7	663.6	665.8	211.6	623.9	604.1	192.9	537.9	-	206.1*	98.4
111.5	-	-	-	195.1	615.1	650.4	184.1	582.0	597.5	166.4	513.7	498.2	149.9	111.5
124.7	-	-	-	172.0	573.2	630.5	162.0	542.3	582.0	145.5	487.2	496.0	130.1	124.7
128.0	-	-	-	165.9	563.3	624.5	156.5	533.5	577.1	141.1	479.0	492.2	125.9	128.0
137.8	-	-	-	147.7	533.5	606.3	140.0	507.1	562.2	127.9	456.4	482.8	113.5	137.8
150.9	-	-	-	125.7	496.0	579.8	119.0	471.8	542.3	108.2	429.9	469.6	95.7	150.9
160.8	-	-	-	112.8	469.6	553.4	105.7	448.6	524.1	95.3	410.1	458.0	83.1	160.8
164.0	-	-	-	108.5	460.8	544.5	101.2	440.9	518.1	91.1	403.4	454.2	78.9	164.0
170.6	-	-	-	101.2	445.3	515.9	94.1	426.6	504.1	83.9	391.3	445.3	71.8	170.6
177.2	-	-	-	-	-	496.0	87.1	412.3	489.4	76.7	379.2	436.5	64.6	177.2
190.3	-	-	-	-	-	443.1	75.4	377.0	447.5	64.6	354.9	416.7	52.9	190.3
203.4	-	-	-	-	-	396.8	-	-	401.2	54.5	335.1	396.8	42.8	203.4
216.5	-	-	-	-	-	357.1	-	-	361.6	46.1	315.3	363.8	34.0	216.5
229.7	-	-	-	-	-	321.9	-	-	324.1	39.2	280.0	328.5	26.5	229.7
242.8	-	-	-	-	-	288.8	-	-	293.2	-	-	295.4	20.3	242.8
255.9	-	-	-	-	-	260.1	-	-	264.6	-	-	266.8	26.2*	255.9
265.7	-	-	-	-	-	241.4	-	-	245.8	-	-	248.0	-	265.7
269.0	-	-	-	-	-	235.2	-	-	239.6	-	-	241.8	-	269.0
282.2	-	-	-	-	-	211.6	-	-	215.3	-	-	217.8	-	282.2
295.3	-	-	-	-	-	190.7	-	-	194.0	-	-	196.2	-	295.3
308.4	-	-	-	-	-	171.6	-	-	174.9	-	-	176.4	-	308.4
321.5	-	-	-	-	-	154.0	-	-	156.9	-	-	158.0	-	321.5
334.6	-	-	-	-	-	137.8	-	-	140.0	-	-	141.1	-	334.6
347.8	-	-	-	-	-	123.1	-	-	125.3	-	-	126.4	-	347.8
360.9	-	-	-	-	-	108.8	-	-	111.3	-	-	112.2	-	360.9
374.0	-	-	-	-	-	97.4	-	-	99.0	-	-	99.6	-	374.0
387.1	-	-	-	-	-	87.7	-	-	89.1	-	-	89.7	-	387.1
400.3	-	-	-	-	-	75.1	-	-	77.5	-	-	80.2	-	400.3
413.4	-	-	-	-	-	59.5	-	-	64.2	-	-	71.2	-	413.4
426.5	-	-	-	-	-	43.9	-	-	49.8	-	-	60.5	-	426.5
439.6	-	-	-	-	-	28.2	-	-	35.3	-	-	48.6	-	439.6
452.8	-	-	-	-	-	-	-	-	20.7	-	-	35.9	-	452.8
456.0	-	-	-	-	-	-	-	-	17.2	-	-	32.8	-	456.0
465.9	-	-	-	-	-	-	-	-	-	-	-	23.3	-	465.9
472.4	-	-	-	-	-	-	-	-	-	-	-	17.0	-	472.4
479.0	-	-	-	-	-	-	-	-	-	-	-	-	-	479.0
482.3	-	-	-	-	-	-	-	-	-	-	-	-	-	482.3

0 lb    242,500 lb    374,800 lb    595,300 lb    815,800 lb    992,100 lb    1,191,000 lb

\* Main boom angle 87°

# Operation

# SWSL\_2, SFSL\_2

463 klb + 44.1 klb ZB 49.2-78.7 ft 31.5 ft 32.2 ft/s 360° ASME B30.5

341.2 ft

275.6 ft 315.0 ft 334.6 ft 354.3 ft 374.0 ft

SWSL\_2 SFSL\_2 SWSL\_2 SFSL\_2 SWSL\_2 SFSL\_2 SWSL\_2 SFSL\_2 SWSL\_2 SFSL\_2

0 lb 0-1,191 klb 0 lb 0-1,191 klb 0 lb 0-1,191 klb 0 lb 0-1,191 klb 0 lb 0-1,191 klb

87°/85° 15° 87°/85° 15° 87°/85° 15° 87°/85° 15° 87°/85° 15°

ft											1,000 lb											ft
95.1	198.4	368.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95.1	
98.4	190.7	366.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98.4	
105.0	178.0	360.5	-	165.3	302.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	105.0	
108.3	171.7	357.7	-	159.3	299.8	-	151.0	271.2	-	-	-	-	-	-	-	-	-	-	-	-	108.3	
111.5	165.3	354.9	-	153.2	297.6	-	145.5	271.2	-	141.1	244.7	-	-	-	-	-	-	-	-	-	111.5	
118.1	126.8	366.0	-	142.7	294.3	-	135.0	267.9	-	131.2	242.5	-	123.5	218.3	-	-	-	-	-	-	118.1	
124.7	117.9	361.6	-	132.3	291.0	-	124.6	264.6	-	121.3	240.3	-	113.5	216.1	-	-	-	-	-	-	124.7	
137.8	101.4	350.5	-	91.1	293.2	-	83.6	264.6	-	80.7	240.3	-	91.5	211.6	-	-	-	-	-	-	137.8	
141.1	97.8	347.8	341.7	87.8	291.6	-	80.4	263.5	-	77.5	239.2	-	56.7	210.5	-	-	-	-	-	-	141.1	
150.9	86.9	339.5	341.7	78.0	286.6	-	71.0	260.1	-	67.9	235.9	-	45.4	207.2	-	-	-	-	-	-	150.9	
154.2	82.7	335.1	339.0	74.4	284.4	280.0	67.0	258.5	-	64.9	234.8	-	42.3	206.4	-	-	-	-	-	-	154.2	
160.8	74.5	326.3	335.7	67.1	280.0	278.5	58.9	255.2	251.3	59.0	232.6	-	36.2	204.8	-	-	-	-	-	-	160.8	
164.0	70.3	321.9	335.1	63.5	277.8	277.8	54.9	253.5	251.3	56.0	231.5	-	33.1	203.9	-	-	-	-	-	-	164.0	
167.3	66.8	318.6	334.0	60.1	275.0	276.7	51.5	251.9	250.8	52.6	230.4	227.1	30.6	202.8	-	-	-	-	-	-	167.3	
173.9	59.7	312.0	331.8	53.4	269.5	274.5	44.8	248.6	249.7	45.9	228.2	227.1	25.8	200.6	198.4	-	-	-	-	-	173.9	
177.2	56.2	308.6	330.7	50.0	266.8	273.4	41.4	246.9	249.1	42.5	227.1	227.1	23.4	199.5	198.4	-	-	-	-	-	177.2	
190.3	45.0	293.2	319.7	38.4	257.9	271.2	30.6	238.1	244.7	31.5	220.5	224.9	39.9	195.1	196.2	190.3	-	-	-	-	190.3	
203.4	35.1	277.8	308.6	28.7	246.9	264.6	21.4	229.3	240.3	22.5	211.6	220.5	29.8	188.5	192.9	203.4	-	-	-	-	203.4	
216.5	26.2	262.4	297.6	20.5	235.9	255.7	36.2	219.4	235.9	33.5	206.1	216.1	20.7	183.0	188.5	216.5	-	-	-	-	216.5	
223.1	22.5	255.7	292.1	16.5	229.3	251.3	32.1	214.4	232.6	29.2	201.7	213.5	16.8	180.8	186.3	223.1	-	-	-	-	223.1	
229.7	18.7	249.1	286.6	31.1	222.7	246.9	28.0	209.4	229.3	24.9	197.3	210.5	-	178.6	184.1	229.7	-	-	-	-	229.7	
242.8	29.1	235.9	273.4	23.6	212.7	238.1	20.7	199.5	220.5	17.9	188.5	205.0	-	173.1	179.7	242.8	-	-	-	-	242.8	
246.1	27.6	232.6	269.0	22.0	210.0	235.9	19.1	197.0	218.3	16.3	186.3	203.4	-	171.4	178.2	246.1	-	-	-	-	246.1	
252.6	24.5	226.0	263.1	18.8	204.5	231.5	15.9	192.1	213.8	-	181.9	200.1	-	168.1	175.3	252.6	-	-	-	-	252.6	
255.9	22.9	222.7	260.1	17.2	201.7	227.1	-	189.6	211.6	-	179.7	198.4	-	166.4	174.2	255.9	-	-	-	-	255.9	
259.2	21.6	219.6	256.8	15.7	199.0	224.5	-	187.1	209.3	-	177.5	196.2	-	164.6	172.5	259.2	-	-	-	-	259.2	
269.0	17.4	210.5	246.9	-	190.7	216.8	-	179.7	202.1	-	170.9	190.3	-	158.7	167.6	269.0	-	-	-	-	269.0	
272.3	16.1	207.8	243.6	-	188.2	214.2	-	177.5	199.7	-	168.9	188.3	-	156.8	165.9	272.3	-	-	-	-	272.3	
282.2	-	199.5	227.1	-	180.8	206.8	-	170.9	192.9	-	163.1	182.2	-	151.0	160.4	282.2	-	-	-	-	282.2	
292.0	-	188.8	214.0	-	174.2	199.5	-	164.2	186.3	-	156.5	176.2	-	146.1	154.3	292.0	-	-	-	-	292.0	
295.3	-	185.2	210.5	-	172.0	196.2	-	162.0	184.1	-	154.3	174.2	-	144.4	152.1	295.3	-	-	-	-	295.3	
305.1	-	163.1	194.8	-	165.3	188.5	-	155.4	176.9	-	148.5	167.6	-	138.6	146.1	305.1	-	-	-	-	305.1	
308.4	-	-	190.1	-	163.1	185.9	-	153.2	174.5	-	146.6	165.3	-	136.7	144.0	308.4	-	-	-	-	308.4	
321.5	-	-	172.0	-	154.3	172.7	-	145.5	165.0	-	138.9	156.9	-	130.1	136.3	321.5	-	-	-	-	321.5	
331.4	-	-	158.7	-	146.9	161.3	-	138.9	157.8	-	133.9	150.8	-	125.1	130.8	331.4	-	-	-	-	331.4	
334.6	-	-	154.3	-	144.4	158.7	-	136.7	155.4	-	132.3	148.8	-	123.5	129.0	334.6	-	-	-	-	334.6	
341.2	-	-	146.6	-	133.4	151.4	-	133.4	148.1	-	128.4	144.4	-	120.2	125.1	341.2	-	-	-	-	341.2	
347.8	-	-	138.9	-	-	144.0	-	130.1	140.7	-	124.6	140.0	-	116.8	121.3	347.8	-	-	-	-	347.8	
351.1	-	-	135.0	-	-	140.4	-	127.9	137.8	-	122.9	137.8	-	115.1	119.0	351.1	-	-	-	-	351.1	
360.9	-	-	124.2	-	-	129.7	-	115.7	129.0	-	117.9	129.9	-	110.0	113.1	360.9	-	-	-	-	360.9	
367.5	-	-	117.2	-	-	122.7	-	-	122.4	-	114.6	122.8	-	106.9	109.3	367.5	-	-	-	-	367.5	
374.0	-	-	110.2	-	-	115.7	-	-	115.7	-	111.3	119.0	-	103.8	105.6	374.0	-	-	-	-	374.0	
380.6	-	-	104.3	-	-	109.4	-	-	109.1	-	101.6	112.5	-	101.0	101.8	380.6	-	-	-	-	380.6	
383.9	-	-	101.5	-	-	106.3	-	-	106.0	-	-	109.3	-	99.5	99.9	383.9	-	-	-	-	383.9	
387.1	-	-	98.7	-	-	103.2	-	-	103.0	-	-	106.0	-	98.1	98.0	387.1	-	-	-	-	387.1	
400.3	-	-	88.4	-	-	92.5	-	-	92.1	-	-	94.9	-	85.8	90.4	400.3	-	-	-	-	400.3	
413.4	-	-	79.1	-	-	83.1	-	-	82.7	-	-	85.1	-	-	82.2	413.4	-	-	-	-	413.4	
426.5	-	-	70.8	-	-	74.6	-	-	74.1	-	-	76.6	-	-	72.7	426.5	-	-	-	-	426.5	
439.6	-	-	61.2	-	-	65.5	-	-	64.9	-	-	67.7	-	-	63.0	439.6	-	-	-	-	439.6	
452.8	-	-	50.5	-	-	55.8	-	-	55.8	-	-	58.4	-	-	53.1	452.8	-	-	-	-	452.8	
465.9	-	-	39.9	-	-	46.9	-	-	46.3	-	-	49.5	-	-	44.0	465.9	-	-	-	-	465.9	
479.0	-	-	29.5	-	-	38.3	-	-	36.9	-	-	40.4	-	-	35.2	479.0	-	-	-	-	479.0	
492.1	-	-	19.4	-	-	29.3	-	-	28.0	-	-	31.7	-	-	26.7	492.1	-	-	-	-	492.1	
495.4	-	-	17.0	-	-	27.0	-	-	26.0	-	-	29.4	-	-	24.7	495.4	-	-	-	-	495.4	
508.5	-	-	-	-	-	17.7	-	-	17.9	-	-	20.6	-	-	16.8	508.5	-	-	-	-	508.5	
511.8	-	-	-	-	-	15.4	-	-	15.9	-	-	18.5	-	-	-	511.8	-	-	-	-	511.8	
515.1	-	-	-	-	-	-	-	-	-	-	-	16.5	-	-	-	515.1	-	-	-	-	515.1	

\* Main boom angle 87°



0 lb 242,500 lb 374,800 lb 595,300 lb 815,800 lb 992,100 lb 1,191,000 lb

# Operation

# SWSL\_2, SFSL\_2

463 klb + 44.1 klb ZB														49.2-78.7 ft		31.5 ft		32.2 ft/s		360°		ASME B30.5	
354.3 ft																							
118.1 ft			137.8 ft			157.5 ft			196.9 ft			236.2 ft											
SWSL_2		SFSL_2		SWSL_2		SFSL_2		SWSL_2		SFSL_2		SWSL_2		SFSL_2									
0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb									
87°/85°		15°		87°/85°		15°		87°/85°		15°		87°/85°		15°									
ft														1,000 lb		ft							
65.6	-	-	-	361.6*	705.5*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65.6			
68.9	-	-	-	346.1*	695.6*	-	330.7*	646.0*	-	-	-	-	-	-	-	-	-	-	-	68.9			
72.2	-	-	-	330.7*	685.6*	-	317.5*	637.1*	-	-	-	-	-	-	-	-	-	-	-	72.2			
78.7	-	-	-	306.4*	663.6*	-	293.2*	619.5*	-	271.2*	533.5*	-	-	-	-	-	-	-	-	78.7			
85.3	-	-	-	246.9	690.0	-	271.2*	601.9*	-	249.1*	522.5*	-	-	-	-	-	-	-	-	85.3			
88.6	-	-	-	238.1	677.9	-	224.9	634.9	-	240.3*	515.9*	-	220.5*	440.9*	-	-	-	-	-	88.6			
91.9	-	-	-	229.3	665.8	-	217.2	623.9	-	231.5*	509.3*	-	212.7*	436.5*	-	-	-	-	-	91.9			
95.1	-	-	-	221.0	652.6	643.8	209.4	614.0	-	223.2*	502.7*	-	205.6*	432.1*	-	-	-	-	-	95.1			
98.4	-	-	-	212.7	641.5	643.8	201.7	604.1	-	183.0	529.1	-	198.4*	427.7*	-	-	-	-	-	98.4			
101.7	-	-	-	206.1	630.0	639.3	195.4	592.5	582.0	176.6	521.9	-	191.8*	423.3*	-	-	-	-	-	101.7			
111.5	-	-	-	186.3	595.2	623.9	176.4	564.4	575.4	157.6	500.4	-	142.2	434.3	-	-	-	-	-	111.5			
114.8	-	-	-	180.5	584.2	617.3	170.9	554.5	571.0	152.7	492.2	482.8	137.2	429.4	-	-	-	-	-	114.8			
124.7	-	-	-	163.1	551.2	599.7	154.3	524.7	555.6	137.8	471.8	478.4	122.4	414.5	-	-	-	-	-	124.7			
128.0	-	-	-	158.2	541.2	592.5	149.1	515.3	550.1	133.4	464.6	474.5	118.3	408.4	399.0	-	-	-	-	128.0			
137.8	-	-	-	143.3	511.5	571.0	133.4	487.2	533.5	120.2	443.1	463.0	106.3	392.4	396.8	-	-	-	-	137.8			
150.9	-	-	-	122.4	474.0	542.3	112.4	454.2	509.3	101.9	414.5	445.3	89.3	370.4	385.8	-	-	-	-	150.9			
160.8	-	-	-	109.8	447.5	520.3	99.7	429.4	489.4	89.3	394.6	432.1	77.1	353.8	375.9	-	-	-	-	160.8			
164.0	-	-	-	105.6	438.7	513.7	95.5	421.1	482.8	85.1	388.0	427.7	73.0	348.3	372.6	-	-	-	-	164.0			
173.9	-	-	-	95.0	414.5	487.2	85.0	399.6	463.0	74.7	369.8	413.0	62.6	333.4	360.5	-	-	-	-	173.9			
177.2	-	-	-	-	-	478.4	81.6	392.4	456.4	71.2	363.8	407.9	59.1	328.5	357.1	-	-	-	-	177.2			
180.4	-	-	-	-	-	465.7	78.7	385.8	449.7	68.3	357.7	402.3	56.2	323.5	353.3	-	-	-	-	180.4			
190.3	-	-	-	-	-	436.5	70.1	366.0	429.9	59.5	339.5	385.8	47.6	308.6	341.7	-	-	-	-	190.3			
203.4	-	-	-	-	-	390.2	-	-	388.0	49.6	317.5	366.0	37.9	288.8	324.1	-	-	-	-	203.4			
216.5	-	-	-	-	-	350.5	-	-	354.9	41.4	297.6	343.9	29.3	271.2	306.4	-	-	-	-	216.5			
229.7	-	-	-	-	-	313.1	-	-	317.5	34.8	280.0	317.5	22.3	253.5	288.8	-	-	-	-	229.7			
242.8	-	-	-	-	-	282.9	-	-	287.3	-	-	288.8	16.1	240.3	274.1	-	-	-	-	242.8			
255.9	-	-	-	-	-	253.5	-	-	257.9	-	-	260.1	23.1*	224.9	257.9	-	-	-	-	255.9			
269.0	-	-	-	-	-	228.5	-	-	232.2	-	-	235.2	-	205.0	233.2	-	-	-	-	269.0			
282.2	-	-	-	-	-	205.3	-	-	208.3	-	-	210.9	-	-	212.7	-	-	-	-	282.2			
295.3	-	-	-	-	-	184.1	-	-	187.4	-	-	189.6	-	-	191.8	-	-	-	-	295.3			
308.4	-	-	-	-	-	165.0	-	-	168.3	-	-	169.8	-	-	172.7	-	-	-	-	308.4			
321.5	-	-	-	-	-	147.0	-	-	150.3	-	-	151.4	-	-	154.3	-	-	-	-	321.5			
334.6	-	-	-	-	-	130.1	-	-	133.4	-	-	134.5	-	-	136.7	-	-	-	-	334.6			
347.8	-	-	-	-	-	115.5	-	-	117.9	-	-	119.8	-	-	122.0	-	-	-	-	347.8			
360.9	-	-	-	-	-	102.8	-	-	104.7	-	-	105.9	-	-	107.1	-	-	-	-	360.9			
374.0	-	-	-	-	-	91.9	-	-	93.7	-	-	94.6	-	-	95.9	-	-	-	-	374.0			
387.1	-	-	-	-	-	82.2	-	-	83.7	-	-	84.6	-	-	85.8	-	-	-	-	387.1			
400.3	-	-	-	-	-	69.9	-	-	72.7	-	-	75.1	-	-	76.1	-	-	-	-	400.3			
413.4	-	-	-	-	-	54.9	-	-	60.6	-	-	66.1	-	-	67.0	-	-	-	-	413.4			
426.5	-	-	-	-	-	40.3	-	-	46.7	-	-	54.7	-	-	57.6	-	-	-	-	426.5			
439.6	-	-	-	-	-	25.7	-	-	33.1	-	-	42.8	-	-	47.3	-	-	-	-	439.6			
446.2	-	-	-	-	-	18.3	-	-	26.2	-	-	36.7	-	-	41.7	-	-	-	-	446.2			
452.8	-	-	-	-	-	-	-	-	19.4	-	-	30.6	-	-	36.2	-	-	-	-	452.8			
456.0	-	-	-	-	-	-	-	-	15.9	-	-	27.6	-	-	33.4	-	-	-	-	456.0			
465.9	-	-	-	-	-	-	-	-	-	-	-	18.7	-	-	25.3	-	-	-	-	465.9			
469.2	-	-	-	-	-	-	-	-	-	-	-	15.7	-	-	22.6	-	-	-	-	469.2			
475.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.2	-	-	-	-	475.7			

0 lb 242,500 lb 374,800 lb 595,300 lb 815,800 lb 992,100 lb 1,191,000 lb

\* Main boom angle 87°

# Operation

# SWSL\_2, SFSL\_2

463 klb + 44.1 klb ZB														49.2-78.7 ft		31.5 ft		32.2 ft/s		360°		ASME B30.5	
354.3 ft																							
275.6 ft			315.0 ft			334.6 ft			354.3 ft			374.0 ft											
SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2									
0 lb		0-1,191 klb	0 lb		0-1,191 klb	0 lb		0-1,191 klb	0 lb		0-1,191 klb	0 lb		0-1,191 klb									
87°/85°		15°	87°/85°		15°	87°/85°		15°	87°/85°		15°	87°/85°		15°									
ft														1,000 lb		ft							
95.1	189.6*	368.2*	-	-	-	-	-	-	-	-	-	-	-	-	-	95.1							
98.4	183.0*	363.8*	-	-	-	-	-	-	-	-	-	-	-	-	-	98.4							
105.0	170.3*	358.3*	-	157.6*	299.8*	-	-	-	-	-	-	-	-	-	-	105.0							
108.3	164.0*	355.5*	-	152.1*	298.7*	-	143.3*	271.2*	-	-	-	-	-	-	-	108.3							
111.5	157.6*	352.7*	-	146.6*	297.6*	-	137.8*	269.0*	-	-	-	-	-	-	-	111.5							
114.8	152.4*	349.4*	-	141.6*	295.4*	-	133.1*	267.3*	-	-	129.0*	244.7*	-	-	-	114.8							
118.1	117.9	363.8	-	136.7*	293.2*	-	128.4*	265.7*	-	-	124.6*	243.2*	-	104.5*	215.0*	118.1							
124.7	109.8	357.1	-	126.8*	288.8*	-	119.0*	262.4*	-	-	115.7*	240.3*	-	94.6*	211.6*	124.7							
137.8	94.4	346.1	-	84.0	291.0	-	76.7	264.6	-	73.6	240.3	-	73.6*	207.2*	-	137.8							
141.1	90.7	341.2	332.9	80.9	288.8	-	73.6	262.9	-	70.6	239.2	-	69.6*	206.1*	-	141.1							
150.9	79.6	328.5	332.9	71.4	282.2	-	64.4	257.9	-	61.5	235.9	-	27.6	206.1	-	150.9							
154.2	75.7	324.6	330.7	68.0	278.9	273.4	60.5	255.7	-	58.3	234.2	-	24.9	205.0	-	154.2							
160.8	68.0	316.9	326.3	61.0	273.4	273.4	52.8	251.3	246.9	51.8	230.9	-	19.5	202.8	-	160.8							
164.0	64.2	313.1	324.1	57.5	271.2	273.4	48.9	249.1	244.7	48.5	229.3	-	16.8	201.7	-	164.0							
167.3	60.9	309.2	321.3	54.3	268.4	271.7	45.7	247.5	244.7	45.6	227.6	222.7	42.2*	200.1	-	167.3							
173.9	54.4	301.5	315.8	47.8	262.9	268.4	39.2	244.2	244.7	39.9	224.3	222.7	36.5*	196.8	192.9	173.9							
177.2	51.1	297.6	313.1	44.5	260.1	266.8	35.9	242.5	244.7	37.0	222.7	222.7	33.7*	195.1	192.9	177.2							
190.3	39.7	280.0	302.0	33.3	249.1	260.1	25.4	231.5	238.1	26.5	216.1	218.3	24.0*	188.5	189.6	190.3							
203.4	30.0	264.6	288.8	23.8	235.9	251.3	16.3	220.5	231.5	17.6	207.2	213.8	15.7*	179.7	183.0	203.4							
216.5	21.6	251.3	275.6	15.9	224.9	240.3	32.8*	209.4	222.7	30.2*	197.3	208.3	-	169.8	176.4	216.5							
229.7	33.3*	235.9	262.4	27.8*	212.7	229.3	24.7*	198.4	213.8	22.3*	188.5	200.6	-	160.9	168.7	229.7							
239.5	27.8*	226.0	251.3	22.3*	203.7	221.0	19.6*	191.0	206.4	16.8*	181.9	194.0	-	154.3	162.0	239.5							
242.8	26.0*	222.7	248.2	20.5*	200.6	218.3	17.9*	188.5	203.9	-	179.7	191.8	-	152.1	159.8	242.8							
246.1	24.5*	219.4	245.2	19.0*	197.9	215.5	16.1*	186.0	201.2	-	177.2	189.6	-	149.9	157.9	246.1							
252.6	21.6*	212.7	239.0	15.9*	192.4	210.0	-	181.1	196.2	-	172.2	185.2	-	145.5	154.0	252.6							
255.9	20.1*	209.4	235.9	-	189.6	207.2	-	178.6	194.0	-	169.8	183.0	-	143.3	152.1	255.9							
265.7	15.9*	201.2	225.4	-	182.2	199.0	-	171.1	186.3	-	163.1	176.4	-	136.7	145.5	265.7							
269.0	-	198.4	221.9	-	179.7	196.2	-	168.7	183.7	-	160.9	174.2	-	134.5	143.3	269.0							
282.2	-	186.3	208.3	-	169.8	185.2	-	159.8	173.4	-	153.2	164.8	-	126.8	134.8	282.2							
292.0	-	178.9	198.4	-	162.3	176.9	-	153.2	165.7	-	146.6	157.6	-	121.0	128.8	292.0							
295.3	-	176.4	195.1	-	159.8	174.2	-	151.0	163.1	-	144.4	155.4	-	119.0	126.8	295.3							
305.1	-	166.4	183.0	-	153.2	165.9	-	144.4	155.4	-	138.6	148.8	-	113.3	120.6	305.1							
308.4	-	-	178.9	-	151.0	163.1	-	142.2	152.9	-	136.7	146.6	-	111.3	118.6	308.4							
321.5	-	-	162.4	-	142.2	152.1	-	134.5	142.9	-	129.0	137.4	-	104.7	110.7	321.5							
331.4	-	-	151.9	-	136.4	143.9	-	128.7	135.8	-	124.0	130.3	-	99.8	104.7	331.4							
334.6	-	-	148.8	-	134.5	141.1	-	126.8	133.4	-	122.4	127.9	-	98.1	102.7	334.6							
344.5	-	-	137.2	-	124.6	133.4	-	121.0	125.7	-	116.6	121.3	-	93.3	97.0	344.5							
347.8	-	-	133.4	-	-	130.8	-	119.0	123.5	-	114.6	119.0	-	91.7	95.1	347.8							
351.1	-	-	129.5	-	-	128.2	-	117.2	121.3	-	113.0	116.8	-	90.2	93.2	351.1							
360.9	-	-	118.5	-	-	119.6	-	108.2	114.2	-	108.2	110.2	-	85.8	87.5	360.9							
364.2	-	-	114.9	-	-	116.5	-	101.0	111.8	-	106.6	108.0	-	84.3	85.6	364.2							
370.7	-	-	107.9	-	-	110.4	-	-	106.9	-	103.5	103.6	-	81.3	81.8	370.7							
374.0	-	-	104.5	-	-	107.4	-	-	104.5	-	101.9	101.4	-	79.8	80.0	374.0							
380.6	-	-	99.2	-	-	102.1	-	-	99.7	-	95.2	97.2	-	77.1	76.4	380.6							
383.9	-	-	96.6	-	-	99.8	-	-	97.3	-	-	95.0	-	75.7	74.6	383.9							
387.1	-	-	93.9	-	-	97.4	-	-	94.9	-	-	92.9	-	74.3	72.8	387.1							
400.3	-	-	83.5	-	-	88.1	-	-	85.3	-	-	84.4	-	67.7	65.7	400.3							
413.4	-	-	73.2	-	-	78.7	-	-	76.1	-	-	76.3	-	-	58.6	413.4							
426.5	-	-	62.0	-	-	68.4	-	-	67.5	-	-	68.2	-	-	51.9	426.5							
439.6	-	-	54.0	-	-	58.8	-	-	58.6	-	-	60.0	-	-	45.2	439.6							
452.8	-	-	43.4	-	-	48.9	-	-	49.2	-	-	51.8	-	-	38.8	452.8							
465.9	-	-	33.1	-	-	39.7	-	-	39.6	-	-	42.4	-	-	31.7	465.9							
479.0	-	-	23.1	-	-	30.9	-	-	30.3	-	-	33.3	-	-	24.5	479.0							
488.8	-	-	15.7	-	-	24.4	-	-	23.4	-	-	26.7	-	-	19.0	488.8							
492.1	-	-	-	-	-	22.3	-	-	21.2	-	-	24.5	-	-	17.2	492.1							
495.4	-	-	-	-	-	20.1	-	-	19.1	-	-	22.4	-	-	15.4	495.4							
498.7	-	-	-	-	-	18.0	-	-	17.0	-	-	20.4	-	-	-	498.7							
502.0	-	-	-	-	-	15.9	-	-	-	-	-	18.4	-	-	-	502.0							
505.3	-	-	-	-	-	-	-	-	-	-	-	16.3	-	-	-	505.3							

# Operation

# SWSL\_2, SFSL\_2

463 klb +  44.1 klb ZB  49.2-78.7 ft  31.5 ft  32.2 ft/s 360° ASME B30.5															
374.0 ft															
118.1 ft		137.8 ft		157.5 ft		196.9 ft		236.2 ft							
SWSL_2		SFSL_2		SWSL_2		SFSL_2		SWSL_2		SFSL_2		SWSL_2		SFSL_2	
0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb	
87°/85°		15°		87°/85°		15°		87°/85°		15°		87°/85°		15°	
ft	1,000 lb												ft		
68.9	-	-	-	-	-	295.4*	590.8*	-	-	-	-	-	-	-	68.9
72.2	-	-	-	-	-	282.2*	584.2*	-	-	-	-	-	-	-	72.2
78.7	-	-	-	-	-	260.1*	568.8*	-	238.1*	487.2*	-	-	-	-	78.7
85.3	-	-	-	-	-	240.3*	549.0*	-	219.4*	476.2*	-	-	-	-	85.3
88.6	-	-	-	-	-	194.0	568.8	-	211.1*	470.7*	-	192.9*	401.2*	-	88.6
91.9	-	-	-	-	-	186.3	560.0	-	202.8*	465.2*	-	185.2*	399.0*	-	91.9
98.4	-	-	-	-	-	173.1	542.3	-	154.3	474.0	-	172.0*	390.2*	-	98.4
101.7	-	-	-	-	-	167.3	532.4	518.1	148.8	466.8	-	166.2*	385.3*	-	101.7
111.5	-	-	-	-	-	149.9	502.7	507.1	132.3	447.5	-	116.8	388.0	-	111.5
114.8	-	-	-	-	-	145.0	492.7	500.4	127.9	439.8	429.9	112.5	382.5	-	114.8
124.7	-	-	-	-	-	130.1	463.0	478.4	114.6	416.7	416.7	99.6	368.2	-	124.7
128.0	-	-	-	-	-	126.2	453.6	471.8	110.7	409.5	411.7	96.1	362.1	352.7	128.0
137.8	-	-	-	-	-	114.6	425.5	451.9	99.0	388.0	396.8	85.3	343.9	343.9	137.8
150.9	-	-	-	-	-	97.7	390.2	425.5	83.8	359.4	374.8	71.0	321.9	330.7	150.9
164.0	-	-	-	-	-	82.0	359.4	396.8	68.3	332.9	354.9	56.2	299.8	313.1	164.0
177.2	-	-	-	-	-	69.2	332.9	370.4	55.8	308.6	332.9	43.7	280.0	297.6	177.2
180.4	-	-	-	-	-	66.6	326.3	364.3	53.1	303.1	327.9	41.1	275.0	293.2	180.4
190.3	-	-	-	-	-	58.6	306.4	346.1	45.2	286.6	313.1	33.3	260.1	280.0	190.3
193.6	-	-	-	-	-	56.4	299.8	340.6	42.9	281.1	308.6	31.1	255.7	275.6	193.6
203.4	-	-	-	-	-	-	-	324.1	32.1	264.6	293.2	24.5	242.5	262.4	203.4
216.5	-	-	-	-	-	-	-	304.2	28.7	246.9	273.4	16.8	224.9	244.7	216.5
229.7	-	-	-	-	-	-	-	282.2	22.7	229.3	255.7	34.0*	209.4	227.1	229.7
242.8	-	-	-	-	-	-	-	262.4	-	-	238.1	27.6*	195.1	212.7	242.8
255.9	-	-	-	-	-	-	-	242.5	-	-	222.7	21.8*	181.9	198.4	255.9
269.0	-	-	-	-	-	-	-	223.1	-	-	203.9	-	169.8	184.5	269.0
282.2	-	-	-	-	-	-	-	201.7	-	-	188.5	-	-	170.9	282.2
295.3	-	-	-	-	-	-	-	179.7	-	-	174.2	-	-	157.6	295.3
308.4	-	-	-	-	-	-	-	160.6	-	-	160.2	-	-	144.4	308.4
321.5	-	-	-	-	-	-	-	142.6	-	-	144.8	-	-	131.9	321.5
334.6	-	-	-	-	-	-	-	125.7	-	-	127.9	-	-	120.2	334.6
347.8	-	-	-	-	-	-	-	111.3	-	-	112.7	-	-	108.4	347.8
360.9	-	-	-	-	-	-	-	99.2	-	-	100.2	-	-	97.2	360.9
374.0	-	-	-	-	-	-	-	88.2	-	-	89.1	-	-	86.4	374.0
387.1	-	-	-	-	-	-	-	78.2	-	-	79.1	-	-	76.4	387.1
400.3	-	-	-	-	-	-	-	67.0	-	-	69.4	-	-	66.7	400.3
413.4	-	-	-	-	-	-	-	54.7	-	-	60.0	-	-	57.3	413.4
426.5	-	-	-	-	-	-	-	41.7	-	-	48.0	-	-	48.3	426.5
439.6	-	-	-	-	-	-	-	29.0	-	-	36.3	-	-	39.1	439.6
452.8	-	-	-	-	-	-	-	16.3	-	-	24.7	-	-	30.0	452.8
462.6	-	-	-	-	-	-	-	-	-	-	16.3	-	-	22.9	462.6
465.9	-	-	-	-	-	-	-	-	-	-	-	-	-	20.6	465.9
472.4	-	-	-	-	-	-	-	-	-	-	-	-	-	15.9	472.4

0 lb   242,500 lb   374,800 lb   595,300 lb   815,800 lb   992,100 lb   1,191,000 lb

\* Main boom angle 87°

# Operation

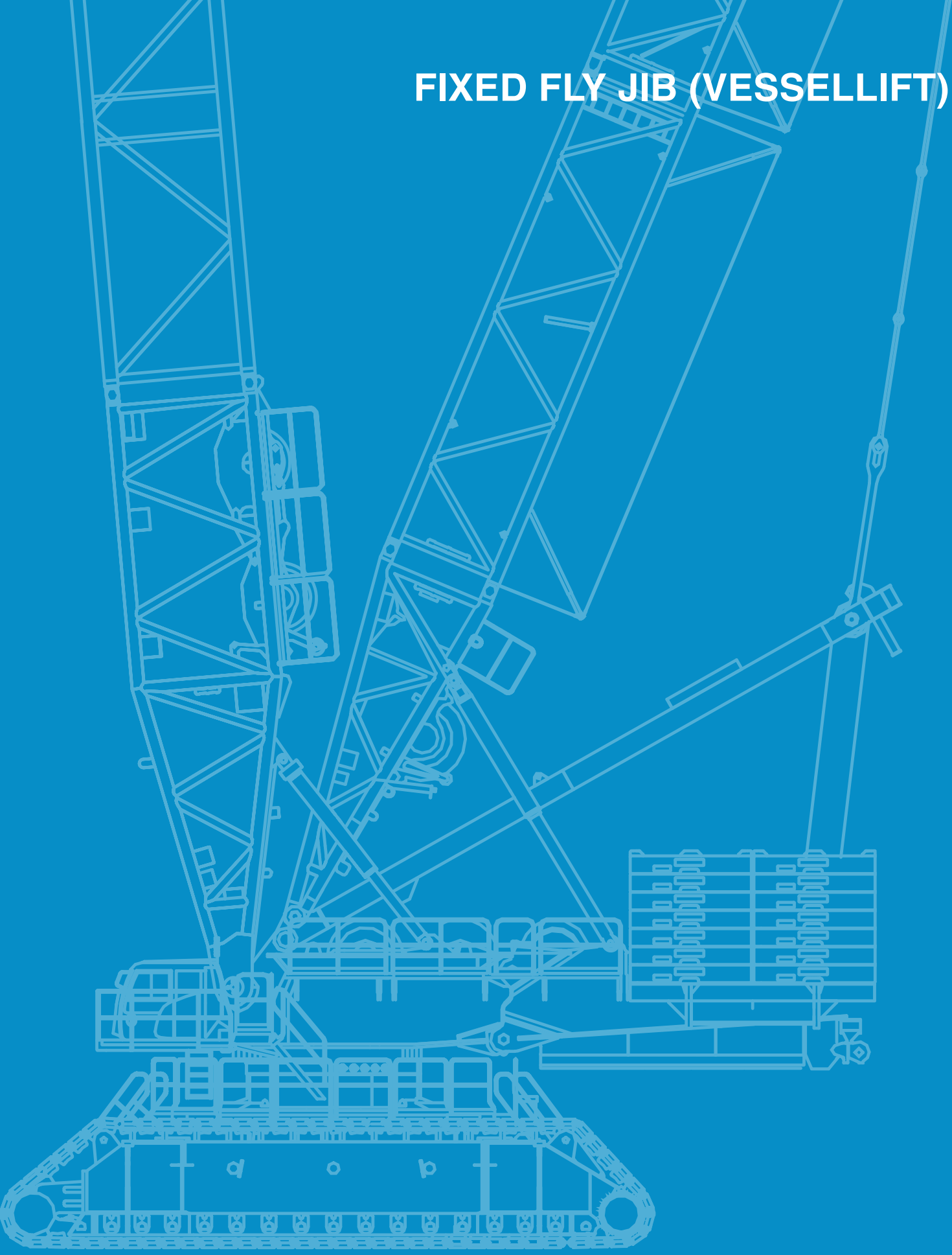
# SWSL\_2, SFSL\_2

463 klb + 44.1 klb ZB 49.2-78.7 ft 31.5 ft 32.2 ft/s 360° ASME B30.5															
374.0 ft															
275.6 ft			315.0 ft			334.6 ft			354.3 ft			374.0 ft			
SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	SWSL_2		SFSL_2	
0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb		0 lb		0-1,191 klb	
87°/85°		15°		87°/85°		15°		87°/85°		15°		87°/85°		15°	
1,000 lb															
ft													ft		
98.4	157.6*	332.9*	-	-	-	-	-	-	-	-	-	-	-	98.4	
105.0	146.6*	327.4*	-	133.4*	275.6*	-	-	-	-	-	-	-	-	105.0	
111.5	135.6*	321.9*	-	123.5*	271.2*	-	115.7*	246.9*	-	-	-	-	-	111.5	
114.8	130.9*	318.6*	-	119.1*	269.5*	-	111.4*	245.3*	-	107.8*	222.7*	-	-	114.8	
118.1	94.8	328.5	-	114.8*	267.9*	-	107.0*	243.6*	-	103.5*	221.6*	-	89.1*	196.2*	118.1
124.7	87.3	319.7	-	106.0*	264.6*	-	98.3*	240.3*	-	95.0*	219.4*	-	78.7*	194.0*	124.7
137.8	73.6	306.4	-	63.5	262.4	-	56.4	238.1	-	80.7*	213.8*	-	60.2*	189.6*	137.8
144.4	67.9	297.6	286.6	58.0	256.8	-	50.9	233.7	-	47.9	215.3	-	52.5*	188.5	144.4
150.9	62.2	288.8	282.2	52.5	251.3	-	45.4	229.3	-	42.8	211.6	-	44.8*	185.2	150.9
157.5	54.9	280.0	276.7	46.4	244.7	238.1	39.7	224.9	-	36.5	208.9	-	38.5*	182.4	157.5
164.0	47.6	271.2	271.2	40.3	238.1	233.7	34.0	220.5	215.0	30.2	206.1	-	32.2*	179.7	164.0
170.6	41.4	262.4	264.6	34.4	231.5	230.8	28.8	214.4	211.3	25.4	200.6	187.4	27.3*	175.3	170.6
177.2	35.3	253.5	257.9	28.4	224.9	227.1	23.6	208.3	207.2	20.5	195.1	184.1	22.5*	170.9	177.2
187.0	27.7	242.0	248.0	21.3	214.1	219.6	17.2	199.5	200.6	39.5*	187.9	179.1	16.1*	164.2	187.0
190.3	25.1	238.1	244.7	19.0	210.5	217.2	39.5*	196.2	198.4	36.8*	185.2	177.5	-	162.0	190.3
203.4	16.5	222.7	229.3	33.3*	197.3	206.1	30.4*	185.2	188.5	26.9*	174.2	168.7	-	153.2	203.4
216.5	34.4*	207.2	216.1	24.5*	185.2	194.0	22.0*	173.1	178.6	19.0*	164.2	159.8	-	143.3	216.5
219.8	32.5*	203.9	212.5	22.7*	182.2	191.3	20.1*	170.3	175.8	17.0*	161.8	157.4	-	141.1	219.8
226.4	28.6*	197.3	205.3	19.0*	176.1	185.7	16.3*	164.8	170.3	-	156.8	152.4	-	136.7	226.4
229.7	26.7*	194.0	201.7	17.2*	173.1	183.0	-	162.0	167.6	-	154.3	149.9	-	134.5	229.7
232.9	25.0*	190.7	198.4	15.4*	170.3	180.0	-	159.6	165.1	-	151.8	147.7	-	132.6	232.9
242.8	19.8*	180.8	188.5	-	162.0	170.9	-	152.1	157.6	-	144.4	141.1	-	126.8	242.8
252.6	15.7*	171.7	178.6	-	154.6	162.0	-	144.7	149.5	-	138.6	132.8	-	120.2	252.6
255.9	-	168.7	175.3	-	152.1	158.7	-	142.2	146.6	-	136.7	130.1	-	117.9	255.9
269.0	-	157.6	162.8	-	142.2	148.4	-	132.3	137.1	-	127.9	120.5	-	110.2	269.0
282.2	-	147.7	150.8	-	132.3	137.8	-	123.5	126.8	-	119.0	111.2	-	102.5	282.2
295.3	-	137.8	138.9	-	123.5	126.8	-	115.7	116.8	-	111.3	102.3	-	95.5	295.3
308.4	-	127.9	127.9	-	115.7	117.2	-	107.8	107.9	-	104.3	93.9	-	88.6	308.4
321.5	-	-	117.0	-	108.0	107.5	-	100.3	98.8	-	97.2	85.7	-	82.5	321.5
331.4	-	-	108.9	-	102.6	100.1	-	95.2	92.0	-	92.3	79.6	-	77.8	331.4
334.6	-	-	106.3	-	100.8	97.7	-	93.5	89.7	-	90.6	77.6	-	76.3	334.6
344.5	-	-	98.5	-	95.5	90.6	-	88.5	83.1	-	86.0	71.5	-	72.0	344.5
347.8	-	-	96.0	-	-	88.3	-	86.9	80.9	-	84.4	69.5	-	70.5	347.8
351.1	-	-	93.4	-	-	85.9	-	85.3	78.7	-	82.9	67.5	-	69.2	351.1
360.9	-	-	85.8	-	-	79.0	-	80.7	72.2	-	78.5	61.5	-	65.0	360.9
364.2	-	-	83.4	-	-	76.7	-	78.3	70.1	-	77.1	59.6	-	63.7	364.2
367.5	-	-	81.0	-	-	74.5	-	-	68.0	-	75.7	57.7	-	62.5	367.5
374.0	-	-	76.3	-	-	70.1	-	-	63.7	-	73.0	53.8	-	60.0	374.0
383.9	-	-	69.3	-	-	63.7	-	-	57.7	-	67.9	48.2	-	56.2	383.9
387.1	-	-	67.0	-	-	61.6	-	-	55.6	-	-	46.3	-	54.9	387.1
400.3	-	-	57.9	-	-	53.3	-	-	47.7	-	-	38.9	-	49.4	400.3
403.5	-	-	55.7	-	-	51.3	-	-	45.8	-	-	37.1	-	47.4	403.5
413.4	-	-	48.9	-	-	45.2	-	-	40.1	-	-	31.7	-	26.9	413.4
426.5	-	-	40.3	-	-	37.3	-	-	32.6	-	-	24.8	-	20.2	426.5
433.1	-	-	36.2	-	-	33.3	-	-	28.9	-	-	21.4	-	16.8	433.1
439.6	-	-	32.2	-	-	29.5	-	-	25.1	-	-	18.0	-	-	439.6
442.9	-	-	30.2	-	-	27.6	-	-	23.1	-	-	16.3	-	-	442.9
452.8	-	-	24.3	-	-	21.8	-	-	17.4	-	-	-	-	-	452.8
456.0	-	-	22.4	-	-	20.1	-	-	15.4	-	-	-	-	-	456.0
462.6	-	-	18.8	-	-	16.5	-	-	-	-	-	-	-	-	462.6
465.9	-	-	17.0	-	-	-	-	-	-	-	-	-	-	-	465.9

0 lb 242,500 lb 374,800 lb 595,300 lb 815,800 lb 992,100 lb 1,191,000 lb

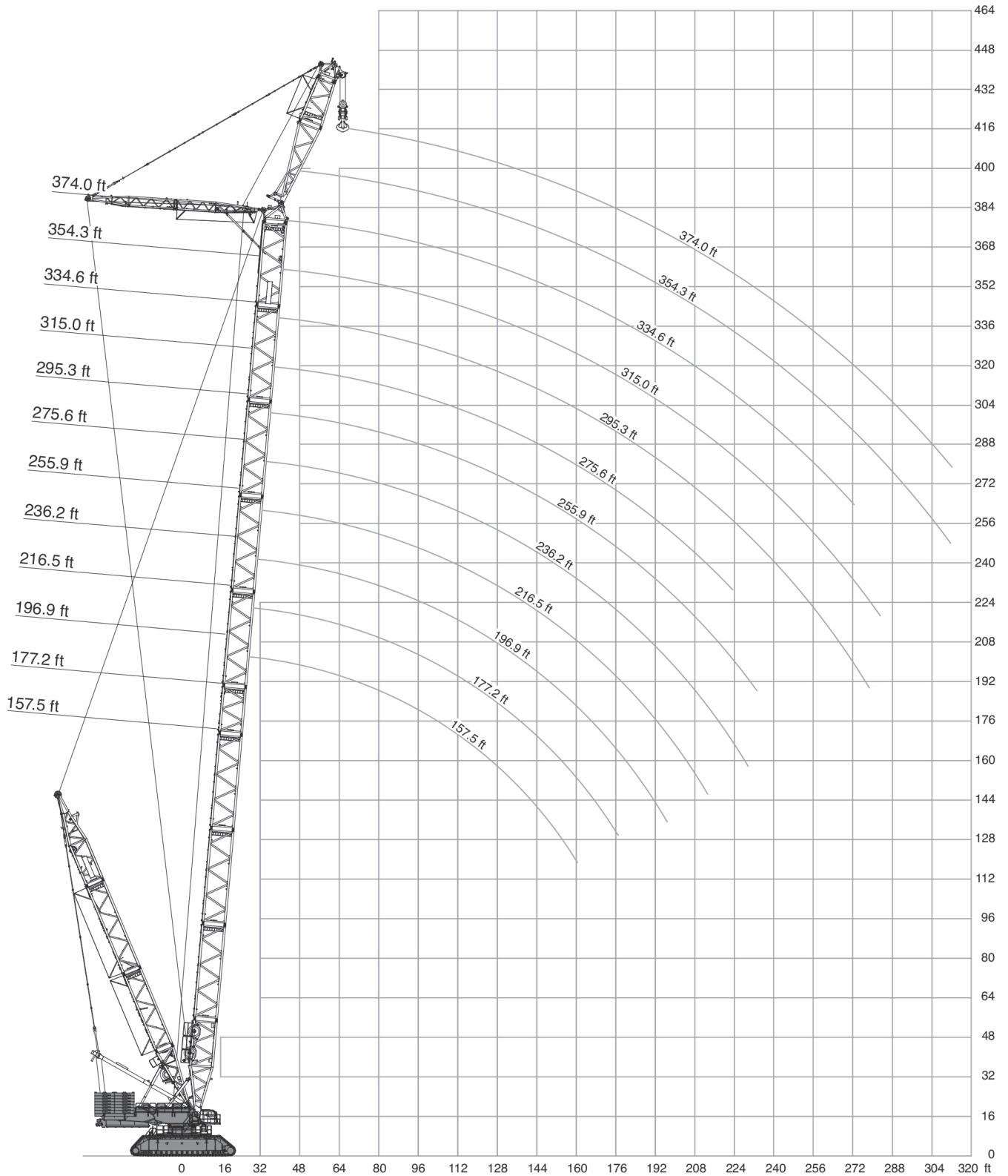
\* Main boom angle 87°

# FIXED FLY JIB (VESSELLIFT)









# Operation

# LVSL\_1, LVSL\_2, LVSL\_3





# Operation

LVSL\_2

 <b>463 klb + 44.1 klb ZB</b>  <b>49.2-78.7 ft</b>  <b>31.5 ft</b>  <b>32.2 ft/s</b>  <b>360°</b>  <b>ASME B30.5</b>															
(ft)															
1,000 lb															
ft	150.9	170.6	190.3	210.0	223.1	242.8	255.9	275.6	288.7	308.4	321.5	341.2	354.3	374.0	ft
49.2	1433.0	1433.0	-	-	-	-	-	-	-	-	-	-	-	-	49.2
52.5	1433.0	1433.0	1433.0	-	-	-	-	-	-	-	-	-	-	-	52.5
55.8	1433.0	1433.0	1433.0	1433.0	1433.0	1419.8	-	-	-	-	-	-	-	-	55.8
59.1	1433.0	1433.0	1433.0	1433.0	1433.0	1419.8	1406.6	1278.7	-	-	-	-	-	-	59.1
62.3	1428.6	1433.0	1433.0	1426.4	1424.2	1419.8	1406.6	1278.7	1239.0	1126.6	-	-	-	-	62.3
65.6	1422.0	1424.2	1433.0	1411.0	1399.9	1419.8	1406.6	1276.5	1236.8	1124.4	1086.9	992.1	-	-	65.6
68.9	1399.9	1394.4	1404.3	1385.6	1374.6	1413.2	1402.1	1272.1	1230.2	1118.8	1080.3	986.6	943.6	853.2	68.9
72.2	1377.9	1364.7	1375.7	1360.3	1349.2	1413.2	1402.1	1267.7	1223.6	1113.3	1073.7	981.1	937.0	846.6	72.2
78.7	1314.0	1300.7	1311.8	1302.9	1296.3	1375.7	1366.9	1256.6	1212.5	1100.1	1058.2	956.8	912.7	822.3	78.7
85.3	1247.8	1241.2	1256.6	1250.0	1245.6	1256.6	1250.0	1241.2	1194.9	1084.7	1036.2	934.8	886.3	798.1	85.3
91.9	1186.1	1181.7	1177.3	1170.7	1161.8	1157.4	1148.6	1144.2	1148.6	1064.8	1009.7	910.5	862.0	771.6	91.9
98.4	1102.3	1095.7	1091.3	1082.5	1073.7	1069.2	1060.4	1056.0	1062.6	1040.6	985.5	886.3	835.6	747.4	98.4
111.5	956.8	950.2	945.8	937.0	928.1	923.7	914.9	910.5	917.1	895.1	890.7	833.3	782.6	696.7	111.5
124.7	842.2	835.6	828.9	822.3	813.5	806.9	800.3	793.7	800.3	778.2	773.8	769.4	727.5	643.8	124.7
137.8	736.3	740.8	736.3	727.5	720.9	714.3	705.5	701.1	707.7	685.6	679.0	674.6	670.2	595.2	137.8
150.9	637.1	663.6	659.2	650.4	641.5	637.1	628.3	621.7	630.5	606.3	601.9	595.2	590.8	549.0	150.9
164.0	546.7	597.5	593.0	584.2	577.6	571.0	564.4	557.8	564.4	542.3	535.7	531.3	524.7	507.1	164.0
177.2	482.8	513.7	533.5	529.1	522.5	515.9	507.1	500.4	509.3	485.0	480.6	474.0	469.6	463.0	177.2
190.3	405.7	440.9	463.0	480.6	471.8	467.4	458.6	451.9	460.8	436.5	432.1	425.5	421.1	414.5	190.3
196.9	379.2	416.7	431.0	459.7	449.7	445.3	437.6	431.0	438.7	414.5	410.1	404.5	399.0	393.5	196.9
203.4	-	392.4	399.0	438.7	429.9	423.3	416.7	410.1	416.7	394.6	388.0	383.6	377.0	372.6	203.4
213.3	-	343.9	370.4	401.2	401.8	395.2	388.6	382.0	388.7	366.5	359.9	353.8	348.9	344.5	213.3
216.5	-	-	361.6	388.0	392.4	385.8	379.2	372.6	379.2	357.1	350.5	343.9	339.5	335.1	216.5
226.4	-	-	319.7	348.3	359.4	361.0	353.8	347.8	354.4	330.7	325.7	319.1	314.5	308.6	226.4
229.7	-	-	-	335.1	348.3	352.7	346.1	339.5	346.1	321.9	317.5	310.9	306.4	299.8	229.7
242.8	-	-	-	297.6	299.8	317.5	315.3	308.6	315.3	293.2	286.6	282.2	275.6	271.2	242.8
249.3	-	-	-	275.6	277.8	296.5	298.7	295.4	302.0	280.0	273.4	267.9	262.4	256.8	249.3
255.9	-	-	-	-	266.8	275.6	282.2	282.2	291.0	266.8	260.1	253.5	249.1	242.5	255.9
259.2	-	-	-	-	260.1	265.1	272.8	276.7	284.9	260.7	254.1	248.0	242.5	236.7	259.2
269.0	-	-	-	-	-	238.1	244.7	257.9	266.8	242.5	235.9	231.5	224.9	219.4	269.0
275.6	-	-	-	-	-	227.1	224.9	241.4	255.7	231.5	225.6	219.9	213.8	208.3	275.6
282.2	-	-	-	-	-	-	210.5	224.9	244.7	220.5	215.0	208.3	202.8	197.3	282.2
288.7	-	-	-	-	-	-	201.7	207.8	228.7	211.6	205.0	199.0	192.9	187.4	288.7
295.3	-	-	-	-	-	-	-	190.7	212.7	201.7	195.1	189.6	183.0	177.5	295.3
305.1	-	-	-	-	-	-	-	173.1	189.6	181.9	181.9	175.5	169.8	164.2	305.1
308.4	-	-	-	-	-	-	-	-	181.9	175.3	177.5	170.9	165.3	159.8	308.4
318.2	-	-	-	-	-	-	-	-	166.4	154.6	157.6	159.3	152.9	147.4	318.2
321.5	-	-	-	-	-	-	-	-	-	147.7	151.0	155.4	148.8	143.3	321.5
334.6	-	-	-	-	-	-	-	-	-	124.6	124.6	131.2	130.1	127.9	334.6
344.5	-	-	-	-	-	-	-	-	-	-	108.5	114.1	113.0	114.5	344.5
347.8	-	-	-	-	-	-	-	-	-	-	-	108.0	107.4	110.0	347.8
360.9	-	-	-	-	-	-	-	-	-	-	-	89.3	85.3	89.5	360.9
364.2	-	-	-	-	-	-	-	-	-	-	-	87.1	81.7	84.4	364.2
374.0	-	-	-	-	-	-	-	-	-	-	-	-	74.5	70.1	374.0
387.1	-	-	-	-	-	-	-	-	-	-	-	-	-	59.5	387.1
390.4	-	-	-	-	-	-	-	-	-	-	-	-	-	54.7	390.4


**595,300 lb**

**815,800 lb**

**992,100 lb**

**1,191,000 lb**

# Notes to Lifting Capacity

Ratings are in compliance with EN 13000. They do not exceed 75% of tipping load, according to ASME B30.5.

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.

# TECHNICAL DESCRIPTION



# Technical Description

Crawler carrier	
<b>Center pot</b>	Bending- and torsion-resistant welded structure fabricated from high-strength fine grain structural steel.
<b>Crawler side frames</b>	Bending-resistant welded structure fabricated from high-strength fine grain structural steel. Centralized lubrication included as standard.
<b>Crawlers</b>	17 track rollers with hardened rolling surfaces. Raised position for both drive sprockets and idler wheels, adjustable track tension. Each crawler is infinitely variable controlled, both independently and in opposite direction. Crawler pads 6.6 ft wide.
<b>Crawler drive</b>	The tracks are powered by two hydraulic motors each through closed planetary gear units running in oil bath, equipped with spring-applied hydraulically released holding brakes. The gear units fit within the width of the crawlers. Each crawler is infinitely variable controlled, both independently and in opposite direction. Quadro-Drive as standard. Tractive effort: 689,714 lbf per side.
<b>Assembly jacks</b>	Four hydraulic jacking cylinders on outriggers (folding within 11.5 ft width) for easy assembly of crawlers.
<b>Central ballast</b>	Max. 396,900 lb (max. 132,300 lb on the center section, plus max. 132,300 lb at each crawler side frame).
Superstructure	
<b>Counterweight</b>	Max. 639,500 lb, arranged in two stacks per side to reduce height as well as lower the CoG.
<b>Frame</b>	Two parts bending- and torsion-resistant welded structure fabricated from high-strength fine grain structural steel. Front part containing slew ring and slew gears, cabin and upper part of quick connection, accommodates the main hoists H1 and H2. Rear part containing the drive and hydraulic system and accommodates the boom hoist as well as the A-frame during transport.
<b>Slew ring</b>	Triple-row roller bearing slew ring with external ring gear for ease of service and maintenance. Central lubrication system.
<b>Drive EU Stage V / EPA Tier 4f</b>	Two Mercedes-Benz diesel engines, type OM470LA, 6 cylinder, 2 x 320 kW (2 x 429 HP) at 1600 1/min, torque 2100 Nm at 1300 1/min. The engines comply with emission standard EU Stage V / EPA Tier 4f. Two pump distributions gearboxes with overall six variable displacement axial piston pumps and additional gear pumps. Stainless steel exhaust system with particle filter, SCR catalyzer and spark arrestor certificate. Engine cover for sound insulation. Fuel: 1 x 396 gallons, AdBlue: 2 x 22.5 gallons.
<b>Rope drums</b>	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, H 2, H 3 and W 1, W 2 equipped with button for button sockets. Hoists H 1 and H 2. Winches H 3 and W 1 are mounted at the main boom foot, W 2 at the Superlift mast foot. All winches are removable to minimise weight for transportation.
<b>A-frame</b>	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.
<b>Slew unit</b>	Powered by five hydraulic motors through closed, planetary gear unit running in oil bath. Spring-applied, hydraulically released holding brake and non-wearing hydraulic braking.
<b>Control system</b>	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: <ul style="list-style-type: none"> <li>• Infinitely variable position of Superlift counterweight with the adjustable Superlift system</li> <li>• Infinitely variable position of main boom angle in SWSL configuration 55°-87° (65°-87° in SW configuration)</li> <li>• Working area limitation</li> <li>• Diagnosis and troubleshooting</li> <li>• User defined joystick mode</li> </ul> The crane is controlled by joystick levers ergonomically positioned in the crane cab. Wireless rigging remote control. Wireless emergency remote control.
<b>Cabin</b>	Comfortable cab with large windscreen and air conditioner. 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. For transportation, the cab swings hydraulically in front of the superstructure.
<b>Electrical equipment</b>	24 V system (2 batteries 12 V / 180 Ah).
<b>Quick-connection</b>	Hydraulic quick-disconnect fittings on carrier and superstructure facilitate removal to minimise weight for transportation as standard.
Optional equipment	
<b>Hydraulic cylinder A-frame</b>	For self-assembly of crawlers.
<b>Rigging aid</b>	Two sideways outrigger for erection of long boom systems without Superlift.
<b>PC outriggers</b>	Outrigger bases 39.4 ft x 39.4 ft, 45.9 ft x 45.9 ft and 52.5 ft x 52.5 ft. Outrigger mats 7.9 ft x 19.7 ft. Alternatively to the crawlers.
<b>Auxiliary power unit</b>	External 11,5 kW diesel powered APU at superstructure; fulfills emission regulations EU Stage V and EPA Tier 4f; supplies 24 V to onboard grid and hydraulic power to air conditioner while main engines are stopped; reduction of fuel consumption, CO <sub>2</sub> emission and main engines operation hours; to be separated for transport.

Further options on request!

# Technical Description

Boom configurations	
<b>Standard main boom</b>	Main boom consisting of standard lattice boom sections 11.5 ft wide in lengths 19.7 ft and 39.4 ft. Main boom lengths 118.1 ft - 374.0 ft.
<b>Main boom with Boom Booster</b>	Main boom consisting of standard lattice boom sections 11.5 ft wide in lengths 19.7 ft and 39.4 ft strengthened by the use of boom booster sections 19 ft wide 32.8 ft long in combination with lower and upper adapter-section 36.1 ft long each. Main boom lengths 150.9 ft - 374.0 ft.
<b>Heavy main boom</b>	Main boom similar to the standard main boom reinforced by using some heavier 39.4 ft sections. Main boom lengths 137.8 ft - 374.0 ft.
<b>Jib</b>	Jib consisting of standard lattice boom sections 11.5 ft wide, reducer 19.7 ft and sections 9.8 ft wide in lengths 19.7 ft and 39.4 ft with two backmasts 70.5 ft and 75.5 ft. The smaller sections can be transported together with main boom sections slotted into each other. Jib lengths 118.1 ft - 374.0 ft for luffing jib or fixed jib operation, 59.0 ft as special fixed jib with only one backmast.
<b>Light fixed jib</b>	LF consisting of standard lattice boom sections 7.2 ft wide in lengths 9.8 ft, 19.7 ft and 39.4 ft. With backmast 39.4 ft. Fixed jib lengths 49.2 ft - 137.8 ft. Jib offsets 15° and 20°; for some configurations 30° in addition.
<b>Superlift system</b>	Superlift mast 137.8 ft consisting of standard lattice boom sections 9.8 ft wide, including boom hoist winch W2 and hydraulic cylinders for height adjustment of the Superlift ballast as well as small winch for stabilising it. Max. Superlift ballast 1,191,000 lb. Superlift radius infinitely variable during operation 49.2 ft to 78.7 ft.
<b>Boom combinations without Superlift</b>	SH = main boom LH = light main boom consisting of main boom and jib sections in combination with jib head SW = main boom with luffing jib, main boom angles 87°, 85°, 75°, 65° LH+LF = light main boom with light fixed jib These modes of operation are available for standard main boom and main boom with boom booster.
<b>Boom combinations with Superlift</b>	SSL = main boom LSL = light main boom consisting of main boom and jib sections in combination with jib head SWSL = main boom with luffing jib operation, main boom angles 87°, 85°, 75°, 65° SFSL = main boom with fixed jib operation, jib offset 15° LVSL = main boom with special short fixed jib, jib offset 15° LSL+LF = light main boom with light fixed jib These modes of operation are available for for standard main boom, main boom with boom booster and heavy main boom.
<b>Fall protection</b>	Fall protection system for main boom, boom booster, fly jib and Superlift mast as standard.
<b>Pinning of boom</b>	Hydraulic assisted pinning of boom sections is standard.
<b>Reeving winch</b>	Mounted on superstructure.
<b>Operator aids</b>	Electronic load indicator, hoist limit switch for boom movements, hydraulic boom backstops, anemometer.
Optional equipment	
<b>Engine ECE R96</b>	<b>Optional for non-regulated markets:</b> Two Mercedes-Benz diesel engines, type OM470LA, 6 cylinder, 2 x 320 kW (2 x 429 HP) at 1600 1/min, torque 2100 Nm at 1300 1/min. The engines comply with emission standard EU Stage IIIA / EPA Tier 3. Stainless steel exhaust system with spark arrestor. Fuel: 1 x 396 gallons.
<b>Crawler pads</b>	7.9 ft.
<b>Longer Superlift mast</b>	Superlift mast 157.5 ft long, necessary for erection of long and/or heavy boom systems. Max. Superlift counterweight 1,191,000 lb during operation, 1,257,000 lb for erection.
<b>Extra long Superlift mast</b>	Superlift mast 196.9 ft long, necessary for erection of ultra long and heavy boom systems. Max. Superlift counterweight 1,191,000 lb during operation, 1,764,000 lb for erection.
<b>Split tray</b>	Superlift tray frame with removable platform underneath the two center stacks of counterweights, incl. center stacks max. 374,800 lb.
<b>Flex frame</b>	Flexible connection between superstructure and Superlift counterweight. Superlift radius infinitely variable during operation 59.0 ft to 98.4 ft. Use with all Superlift mast lengths.
<b>Telescopic frame</b>	Telescopic connection between superstructure and Superlift counterweight. Superlift radius infinitely variable during operation 59.0 ft to 78.7 ft and 78.7 ft to 98.4 ft with extension frame. Use with Superlift mast 137.8 ft and 157.5 ft.
<b>Counterweight carrier for Superlift</b>	Counterweight carrier for total weight of max. 1,191,000 lb with 6 wheels / 3 axles (two driven, all steered – full manoeuvrability for slewing, trailing, and parallel modes). Use in combination 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).
<b>Hoist H3</b>	Additional rope drum on main boom (for LF or runner operation). Line pull same as H1, rope length 2297 ft.
<b>Runner 105,800 lb</b>	Approx. 6.6 ft for installation on boom head or jib head.
<b>Runner for LF 52,900 lb</b>	Approx. 3.3 ft for installation on the light fixed jib tip.

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