



Absolutely The Best Crane Mats In The World.

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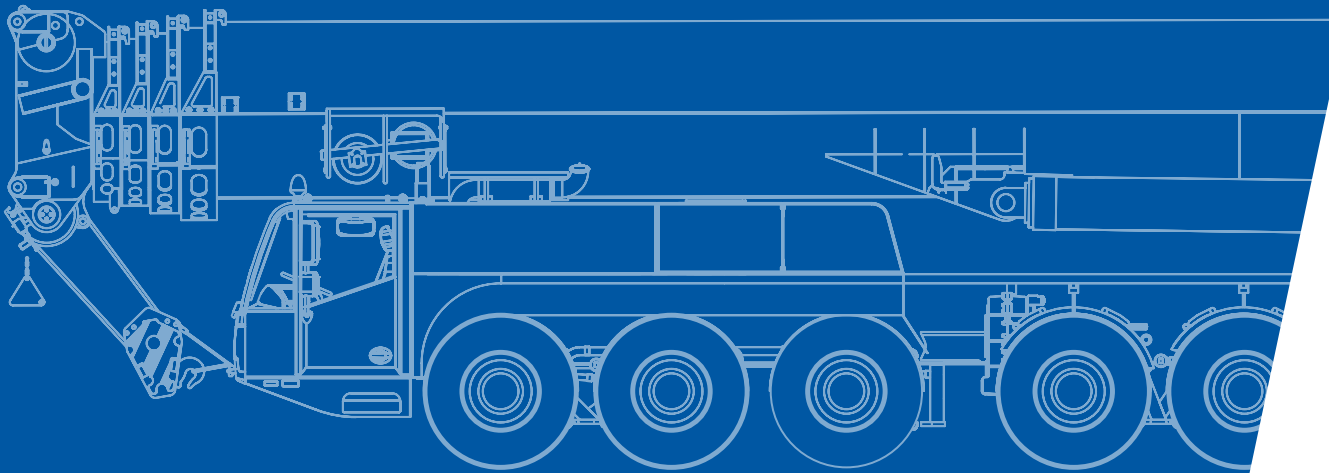
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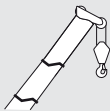
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AC 500-8



**All Terrain Crane
600 USt Capacity class**

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Counterweight



Lifting capacities on outriggers · 360°



Radius



Main boom



Folding swing-away jib



Fixed fly jib



Luffing fly jib



Max. axle loads



Mechanism



Tires



Hook block



Hoist



Sideways Superlift



Travel speed



Gradeability – road



Gradeability – off road



Slewing



Boom telescoping



Boom elevation



Working speeds



Max. line pull



Rope diameter



Rope length



Hook block (capacity-sheaves-rope diameter)



Number of lines



Possible load of hook block



Weight of hook block



Distance head sheave axle – hook ground



Number of sheaves in boom head



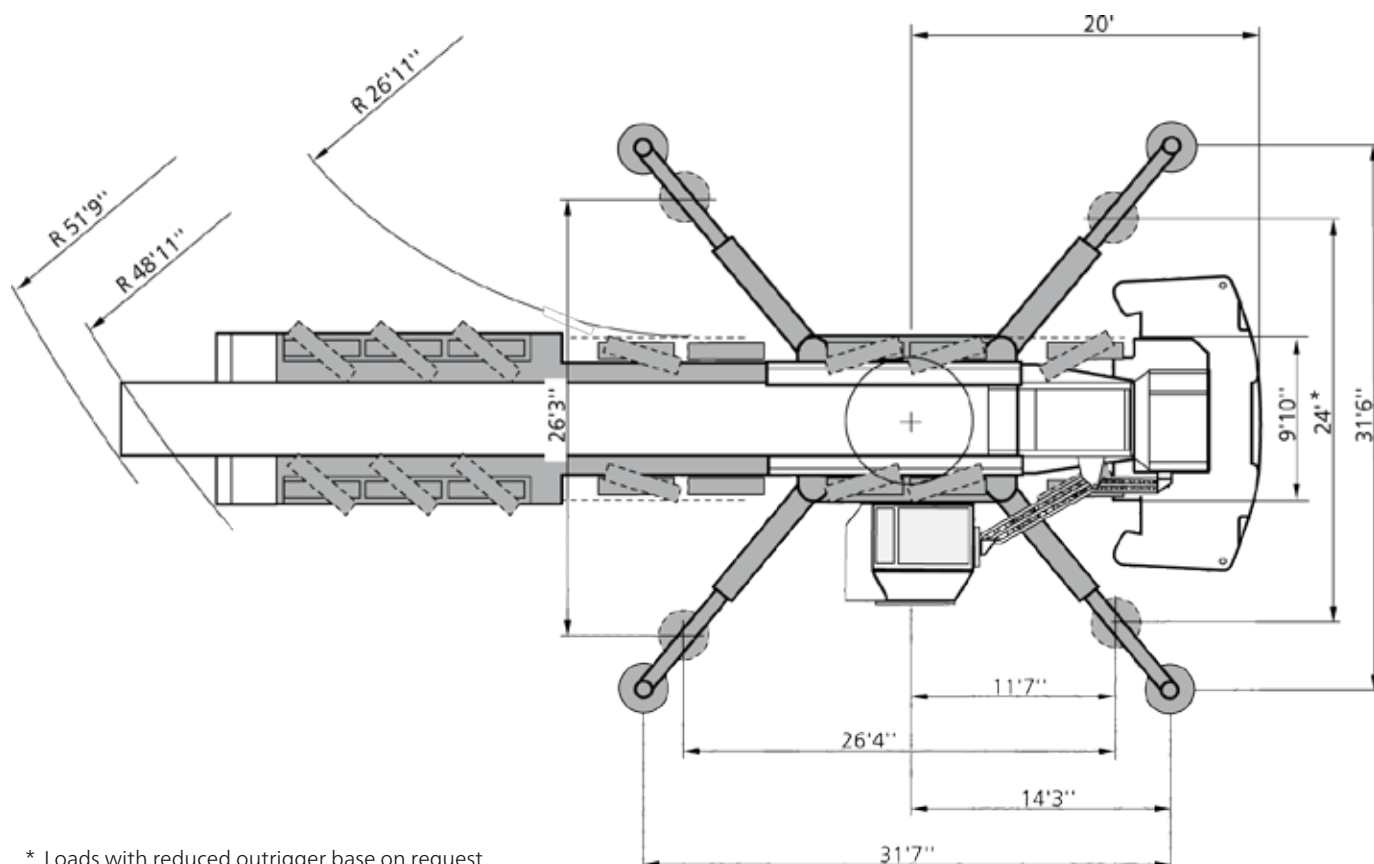
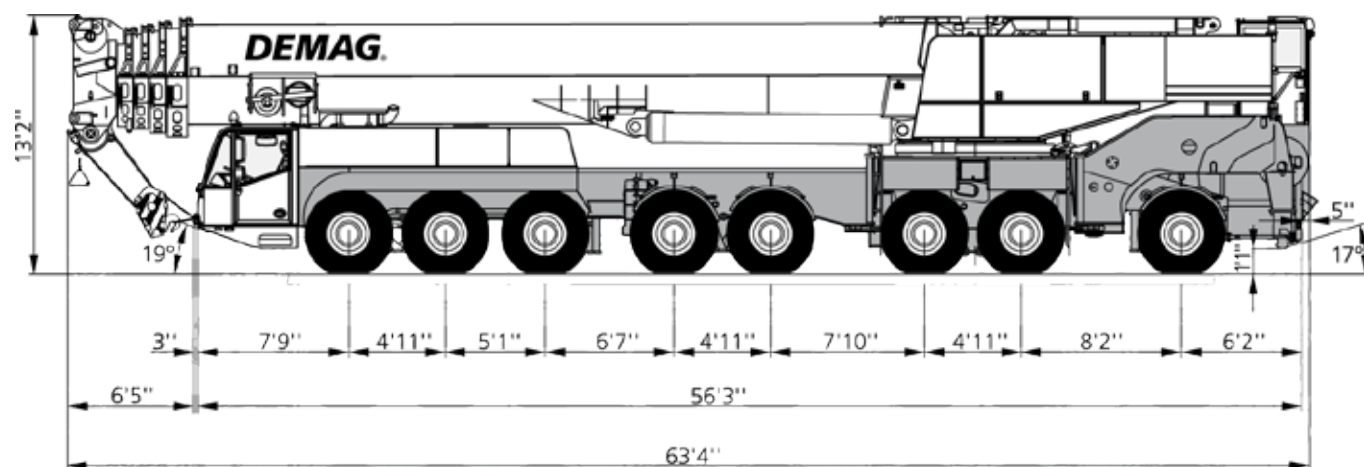
Front outrigger



Rear outrigger



Additional central outriggers

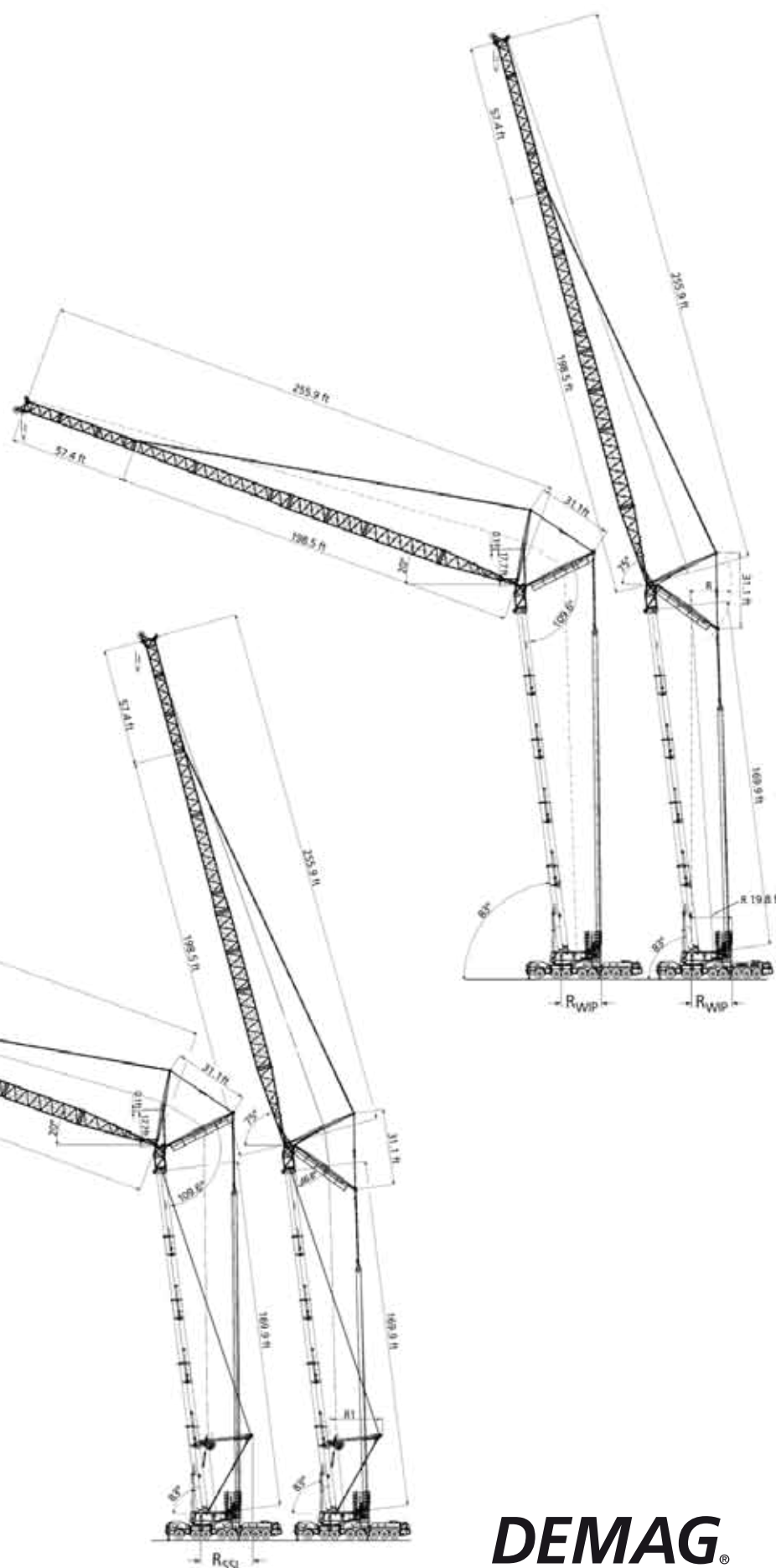


* Loads with reduced outrigger base on request

Dimensions

AC 500-8

	R _{WIP} [ft]		
 [ft]	 83°	 73°	 65°
48.2	34.5	24.6	17.1
63.3	32.7	20.2	10.7
78.7	30.8	15.7	4.2
93.8	28.9	11.3	- 2.2
108.9	27.1	6.9	- 8.6
124.3	25.2	2.4	-15.1
139.4	23.4	- 2.0	-21.5
154.9	21.5	- 6.5	-28.0
169.9	19.6	-11.0	-34.4



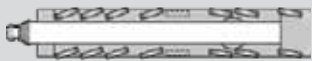
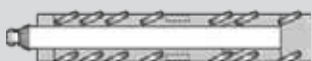
R _{SSL} [ft]	
 83°	25,877
 73°	18,895
 65°	12,947

DEMAG®
BY TEREX

Specifications

AC 500-8

								
	Total							
19,400 lb	114,600 lb	16 x 8 x 14	14.00R25	—	—	—	—	—
26,500 lb	191,800 lb	16 x 8 x 14	14.00R25	—	—	—	X	—
26,500 lb	209,400 lb	16 x 8 x 14	14.00R25	40-1-24	—	X	X	—
28,700 lb	220,500 lb	16 x 8 x 14	14.00R25	40-1-24	X	X	X	—
32,000 lb	233,700 lb	16 x 8 x 14	14.00R25	40-1-24	—	X	X	X
34,400 lb	251,300 lb	16 x 8 x 14	14.00R25	100-3-24	X	X	X	X

	1 Road Travel
	2 Manually steered
	3 Crab steer mode

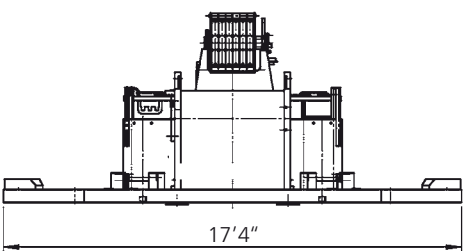
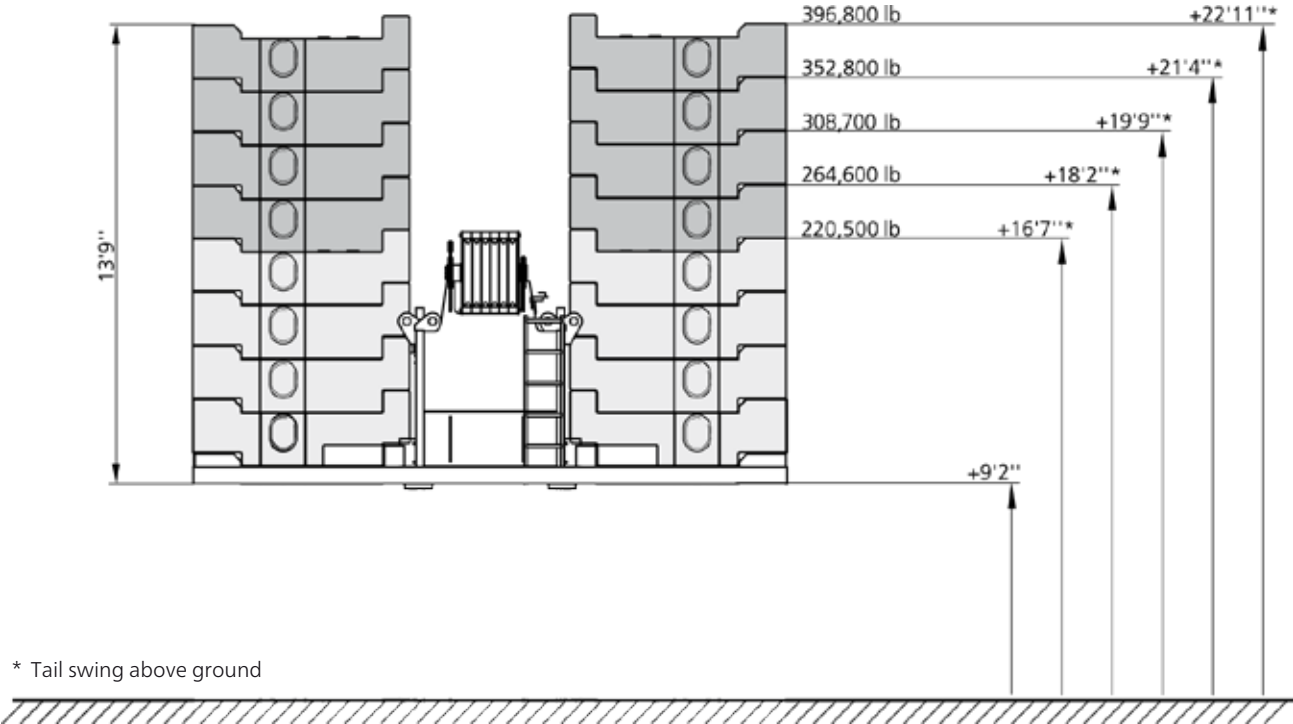
			
	395,000 lb	434,400 lb	49.7 mph ¹⁾
	21.7 in	21.7 in	

¹⁾ Depending on tire type, size and country specific legislation

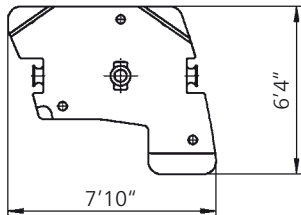
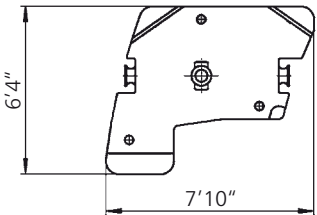
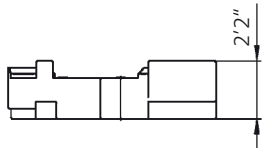
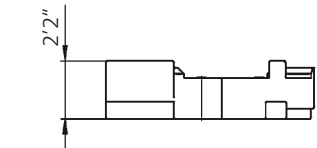
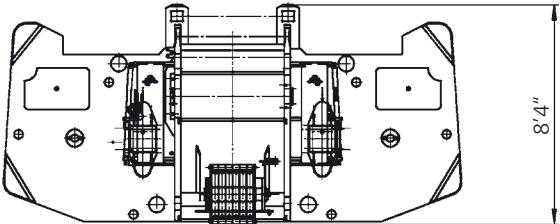
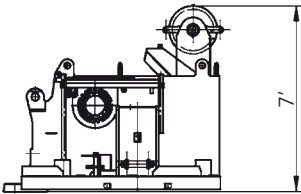
		
	385 / 95 R25 14.00 R25	445 / 80 R25 17.50 R25
	41 %	41 %

				
				
1	380 ft/min	28,200 lbf	0.94 in	1969 ft
2	466 ft/min	28,200 lbf	0.94 in	2362 ft
	0.9 rpm			
	420 s (48.2 - 183.7 ft)			
	85 s (0° - 83°)			

					
1	27,600	12,5-0-24	8	1,100 lb	6.6 ft
2	55,600	40-1-24	8	1,650 lb	8.9 ft
3	82,900	40-1-24	8	1,650 lb	8.9 ft
4	109,800	100-3-24	8	4,000 lb	9.8 ft
5	136,700	100-3-24	8	4,000 lb	9.8 ft
6	163,100	100-3-24	8	4,000 lb	9.8 ft
7	189,400	100-3-24	8	4,000 lb	9.8 ft
8	215,400	160-5-24	8	4,900 lb	9.8 ft
9	241,200	160-5-24	8	4,900 lb	9.8 ft
10	266,500	160-5-24	8	4,900 lb	9.8 ft
11	292,000	160-5-24	8	4,900 lb	9.8 ft
12	316,800	200-7-24	8	5,100 lb	9.8 ft
13	341,500	200-7-24	8	5,100 lb	9.8 ft
14	366,000	200-7-24	8	5,100 lb	9.8 ft
15	390,200	200-7-24	8	5,100 lb	9.8 ft
16	414,200	250-9-24	8	5,700 lb	14.8 ft
17	438,000	250-9-24	8+3	5,700 lb	14.8 ft
18	461,400	250-9-24	8+3	5,700 lb	14.8 ft
19	484,800	250-9-24	8+3	5,700 lb	14.8 ft
20	507,700	320-11-24	8+3	7,100 lb	14.8 ft
21	530,700	320-11-24	8+3	7,100 lb	14.8 ft
22	553,100	320-11-24	8+3	7,100 lb	14.8 ft

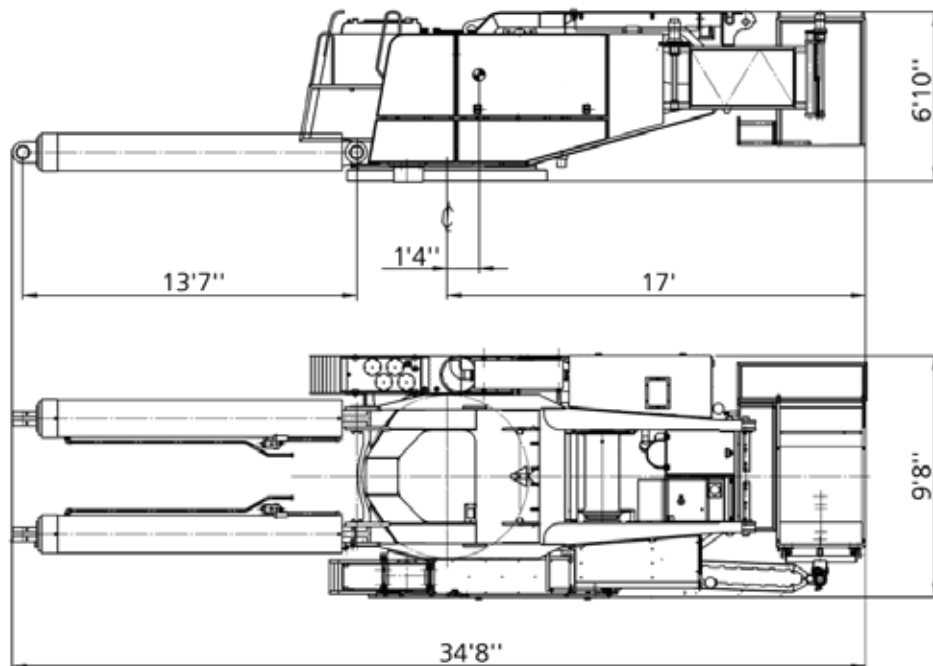


44,100 lb



Superstructure with luffing cylinder

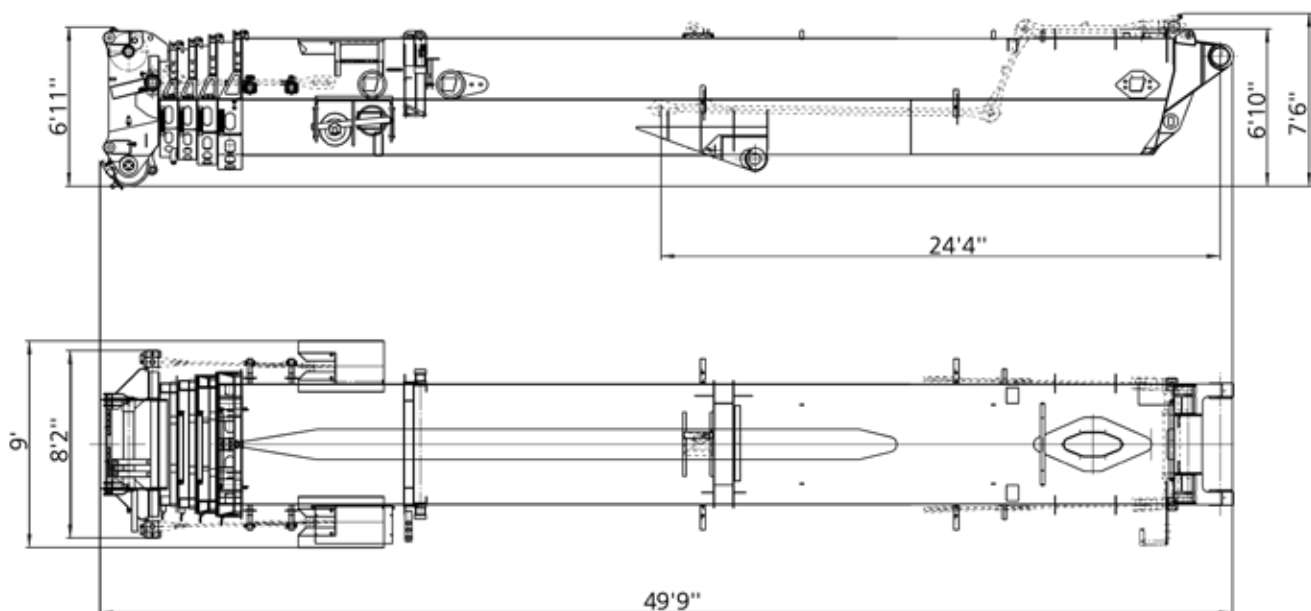
44,100 lb*



* incl. luffing cylinder

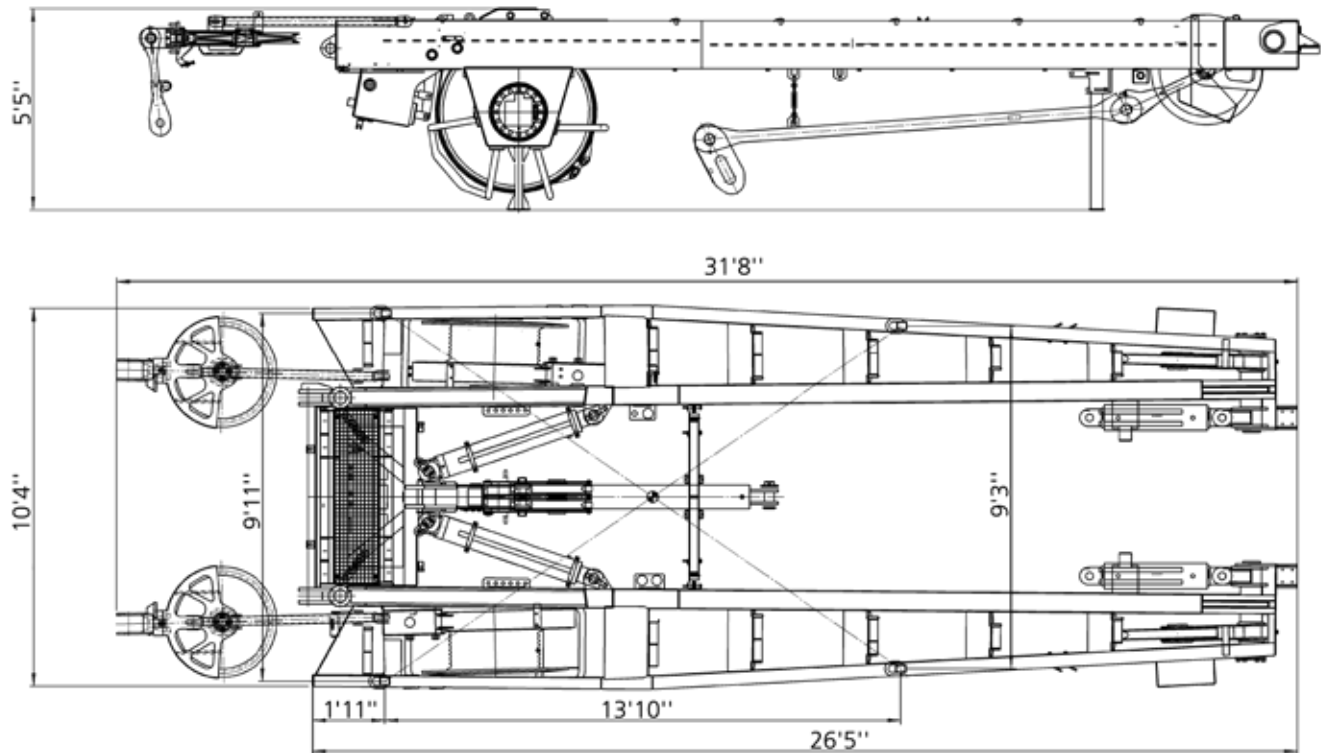
Main boom

77,200 lb



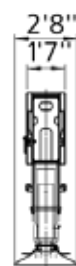
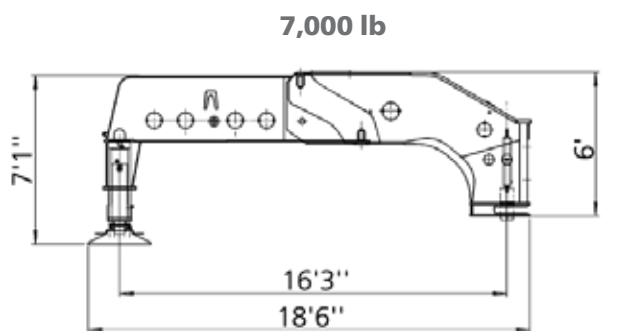
Sideways Superlift SSL

26,500 lb

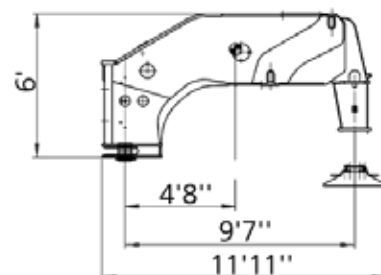
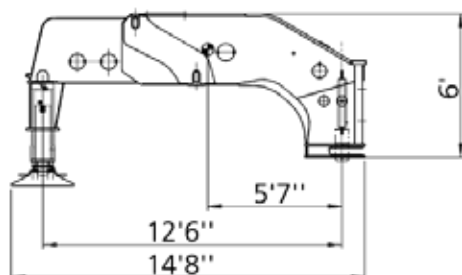
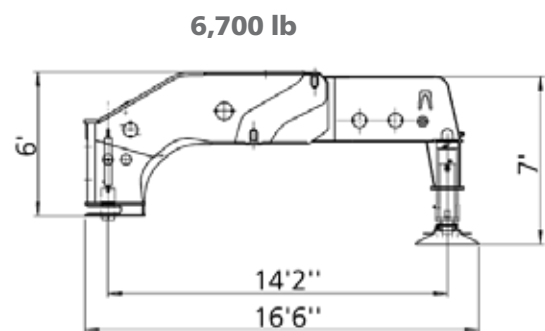


Outriggers

7,000 lb



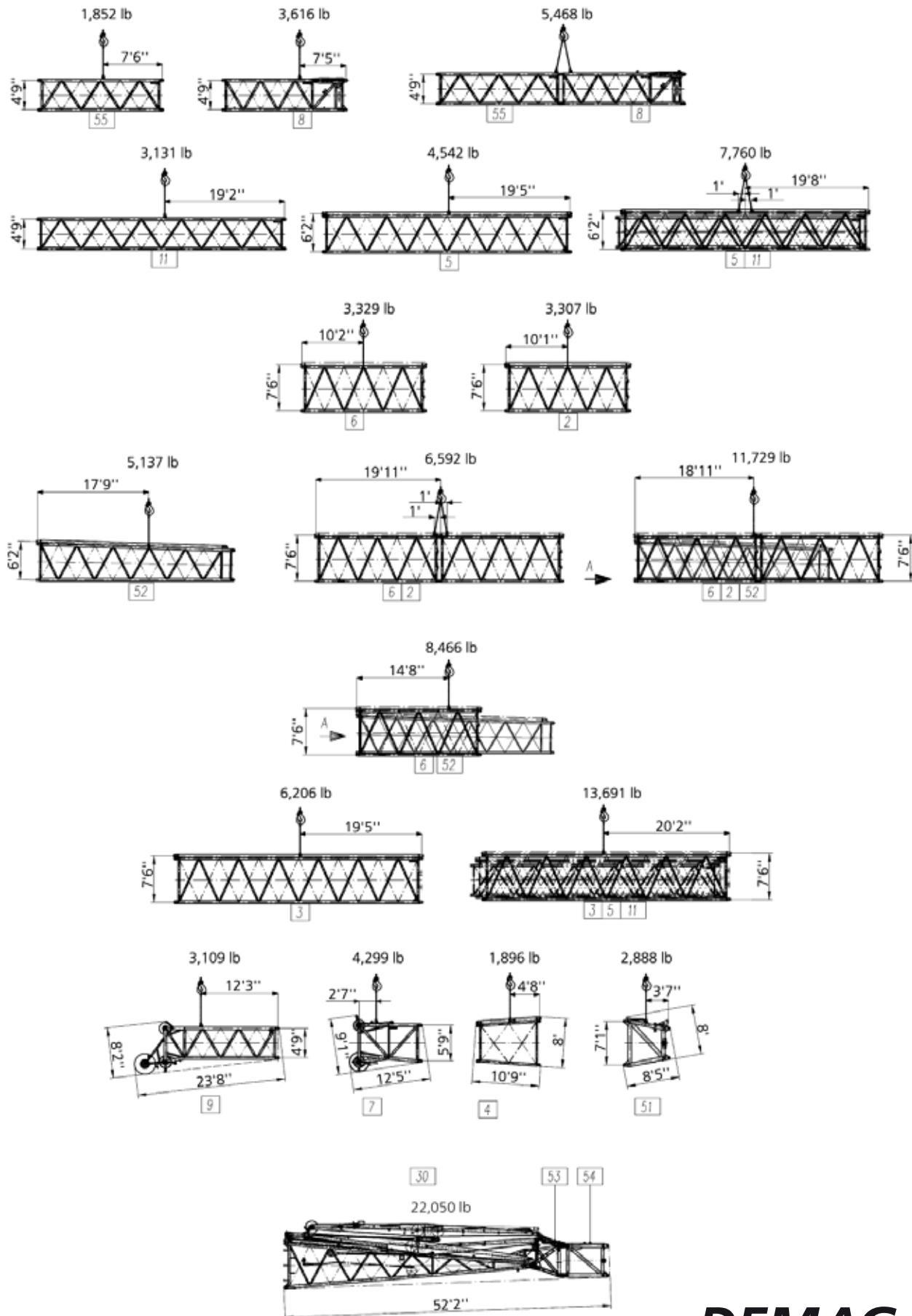
6,700 lb

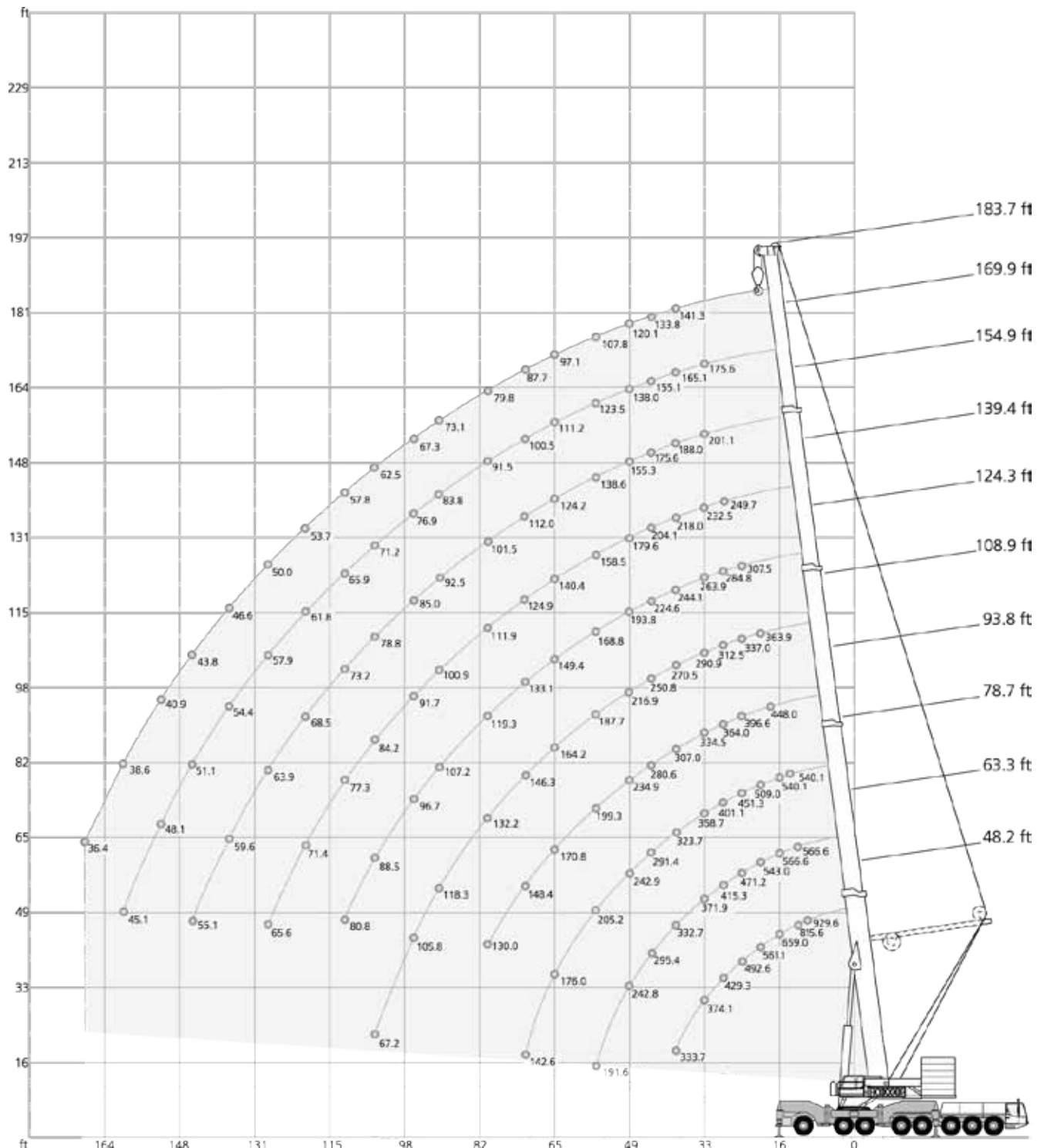
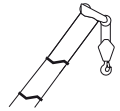


LF

HAV

WIHI





 396,800 lb					360°										85%	
 48.2ft ¹⁾ 48.2ft		63.3ft ¹⁾	63.3ft	78.7ft ¹⁾	78.7ft	93.8ft	108.9ft	124.3ft	139.4ft	154.9ft	169.9ft	183.7ft				
ft		1,000 lb											ft			
1102.3**		-	-	-	-	-	-	-	-	-	-	-	10			
10	929.6**	551.2	-	-	-	-	-	-	-	-	-	-	12			
12	815.6**	551.2	566.6*	551.2	-	-	-	-	-	-	-	-	14			
14	728.7**	551.2	566.6*	551.2	540.1	540.1	-	-	-	-	-	-	16			
16	659.0**	551.2	566.6*	551.2	540.1	540.1	-	-	-	-	-	-	18			
18	607.4**	526.5	558.0*	525.4	527.3	519.8	448.0	-	-	-	-	-	20			
20	561.1*	495.6	543.0	495.6	509.0	493.4	429.6	363.9	-	-	-	-	24			
24	492.6	435.9	471.2	436.5	451.3	434.3	396.6	337.0	307.5	-	-	-	28			
28	429.3	386.8	415.3	387.8	401.1	386.8	364.0	312.5	284.8	249.7	-	-	32			
32	374.1	347.1	371.9	348.8	358.7	347.1	334.5	290.9	263.9	232.5	201.1	175.6	36			
36	333.7	315.9	332.7	318.1	323.7	315.9	307.0	270.5	244.1	218.0	188.0	165.1	40			
40	-	-	295.4	289.4	291.4	287.4	280.6	250.8	224.6	204.1	175.6	155.1	48			
48	-	-	242.8	243.8	242.9	243.0	234.9	216.9	193.8	179.6	155.3	138.0	56			
56	-	-	191.6	195.0	205.2	205.5	200.5	187.7	168.8	158.5	138.6	123.5	64			
64	-	-	-	-	176.0	176.1	175.0	164.2	149.4	140.4	124.2	111.2	72			
72	-	-	-	-	142.5	142.8	155.0	146.3	133.1	124.9	112.0	100.5	80			
80	-	-	-	-	-	-	135.9	132.7	119.3	111.9	101.5	91.5	88			
88	-	-	-	-	-	-	-	121.6	107.2	100.9	92.5	83.8	96			
96	-	-	-	-	-	-	-	109.1	96.7	91.7	85.0	76.9	104			
104	-	-	-	-	-	-	-	67.2	88.5	84.2	78.8	71.2	112			
112	-	-	-	-	-	-	-	-	80.8	77.3	73.2	65.9	120			
120	-	-	-	-	-	-	-	-	-	71.4	68.5	61.8	128			
128	-	-	-	-	-	-	-	-	-	65.6	63.9	57.9	136			
136	-	-	-	-	-	-	-	-	-	-	59.6	54.4	144			
144	-	-	-	-	-	-	-	-	-	-	55.1	51.1	152			
152	-	-	-	-	-	-	-	-	-	-	-	48.1	160			
160	-	-	-	-	-	-	-	-	-	-	-	45.1	168			
168	-	-	-	-	-	-	-	-	-	-	-	-				

** over rear

*, ** HA-SA:

Main boom with special equipment

1) HA-ZA =  396,800 lb + 

 352,800 lb		360° / Max.*								85%	
	360° 48.2 ft	Max. 48.2 ft	360° 63.3 ft	Max. 63.3 ft	360° 78.7 ft	Max. 78.7 ft	360° 93.8 ft	Max. 93.8 ft	360° 108.9 ft	Max. 108.9 ft	
ft	1,000 lb										ft
10	551.2	551.2	-	-	-	-	-	-	-	-	10
12	551.2	551.2	-	-	-	-	-	-	-	-	12
14	551.2	551.2	551.2	551.2	540.1	540.1	-	-	-	-	14
16	551.2	551.2	551.2	551.2	540.1	540.1	-	-	-	-	16
18	523.3	526.5	523.3	525.4	517.6	519.8	448.0	448.0	-	-	18
20	489.0	495.6	489.0	495.6	489.0	493.4	429.6	429.6	363.9	363.9	20
24	429.9	435.8	429.9	436.5	429.9	434.3	396.6	396.6	337.0	337.0	24
28	382.4	386.8	382.4	387.8	382.4	386.8	364.0	364.0	312.5	312.5	28
32	344.4	344.4	344.4	344.4	342.7	342.7	334.5	334.5	290.9	290.9	32
36	313.7	313.7	313.7	313.7	311.5	311.5	307.0	307.0	270.5	270.5	36
40	-	-	284.8	284.8	282.6	282.6	280.6	280.6	250.8	250.8	40
48	-	-	236.6	236.6	234.2	234.2	234.9	234.9	216.9	216.9	48
56	-	-	191.1	191.1	197.3	197.3	199.3	199.3	187.7	187.7	56
64	-	-	-	-	168.9	168.9	170.8	170.8	164.2	164.2	64
72	-	-	-	-	142.6	142.6	148.4	148.4	146.3	146.3	72
80	-	-	-	-	-	-	130.0	130.0	132.2	132.2	80
88	-	-	-	-	-	-	-	-	118.3	118.3	88
96	-	-	-	-	-	-	-	-	105.8	105.8	96
104	-	-	-	-	-	-	-	-	67.2	67.2	104

	360° 124.3 ft	Max. 124.3 ft	360° 139.4 ft	Max. 139.4 ft	360° 154.9 ft	Max. 154.9 ft	360° 169.9 ft	Max. 169.9 ft	360° 183.7 ft	Max. 183.7 ft	
ft	1,000 lb										ft
24	307.5	307.5	-	-	-	-	-	-	-	-	24
28	284.8	284.8	249.7	249.7	-	-	-	-	-	-	28
32	263.9	263.9	232.5	232.5	201.1	201.1	175.6	175.6	-	-	32
36	244.1	244.1	218.0	218.0	188.0	188.0	165.1	165.1	141.3	141.3	36
40	224.6	224.6	204.1	204.1	175.6	175.6	155.1	155.1	133.8	133.8	40
48	193.8	193.8	179.6	179.6	155.3	155.3	138.0	138.0	120.1	120.1	48
56	168.8	168.8	158.5	158.5	138.6	138.6	123.5	123.5	107.8	107.8	56
64	149.4	149.4	140.4	140.4	124.2	124.2	111.2	111.2	97.1	97.1	64
72	133.1	133.1	124.9	124.9	112.0	112.0	100.5	100.5	87.7	87.7	72
80	119.3	119.3	111.9	111.9	101.5	101.5	91.5	91.5	79.8	79.8	80
88	107.2	107.2	100.9	100.9	92.5	92.5	83.8	83.8	73.1	73.1	88
96	96.7	96.7	91.7	91.7	85.0	85.0	76.9	76.9	67.3	67.3	96
104	88.5	88.5	84.2	84.2	78.8	78.8	71.2	71.2	62.5	62.5	104
112	80.8	80.8	77.3	77.3	73.2	73.2	65.9	65.9	57.8	57.8	112
120	-	-	71.4	71.4	68.5	68.5	61.8	61.8	53.7	53.7	120
128	-	-	65.6	65.6	63.9	63.9	57.9	57.9	50.0	50.0	128
136	-	-	-	-	59.6	59.6	54.4	54.4	46.6	46.6	136
144	-	-	-	-	55.1	55.1	51.1	51.1	43.8	43.8	144
152	-	-	-	-	-	-	48.1	48.1	40.9	40.9	152
160	-	-	-	-	-	-	-	-	38.6	38.6	160
168	-	-	-	-	-	-	-	-	36.4	36.4	168

* Max. values are valid only for specific superstructure positions

 264,600 lb		360° / Max.*								85%	
	360° 48.2 ft	Max. 48.2 ft	360° 63.3 ft	Max. 63.3 ft	360° 78.7 ft	Max. 78.7 ft	360° 93.8 ft	Max. 93.8 ft	360° 108.9 ft	Max. 108.9 ft	
ft	1,000 lb										ft
10	551.2	551.2	-	-	-	-	-	-	-	-	10
12	551.2	551.2	-	-	-	-	-	-	-	-	12
14	551.2	551.2	551.2	551.2	540.1	540.1	-	-	-	-	14
16	546.2	551.2	544.5	551.2	540.1	540.1	-	-	-	-	16
18	514.5	526.5	512.3	525.4	511.2	519.8	448.0	448.0	-	-	18
20	477.9	494.8	478.2	494.9	476.0	492.6	429.6	429.6	363.9	363.9	20
24	419.6	424.7	421.1	424.9	418.9	422.6	396.6	396.6	337.0	337.0	24
28	373.6	373.6	373.6	373.6	372.6	372.6	364.0	364.0	312.5	312.5	28
32	330.6	330.6	330.6	330.6	328.9	328.9	329.5	329.5	290.9	290.9	32
36	294.0	294.0	294.0	294.0	291.8	291.8	294.0	294.0	270.5	270.5	36
40	-	-	260.7	260.7	258.5	258.5	260.7	260.7	250.8	250.8	40
48	-	-	214.5	214.5	212.2	212.2	214.5	214.5	215.5	215.5	48
56	-	-	178.0	178.0	178.8	178.8	178.1	178.1	181.3	181.3	56
64	-	-	-	-	151.9	151.9	148.8	149.2	152.4	152.4	64
72	-	-	-	-	127.1	132.5	123.6	129.8	127.3	132.3	72
80	-	-	-	-	-	-	105.6	114.1	107.9	116.6	80
88	-	-	-	-	-	-	-	-	92.7	103.5	88
96	-	-	-	-	-	-	-	-	80.5	92.7	96
104	-	-	-	-	-	-	-	-	67.2	67.2	104

	360° 124.3 ft	Max. 124.3 ft	360° 139.4 ft	Max. 139.4 ft	360° 154.9 ft	Max. 154.9 ft	360° 169.9 ft	Max. 169.9 ft	360° 183.7 ft	Max. 183.7 ft	
ft	1,000 lb										ft
24	307.5	307.5	-	-	-	-	-	-	-	-	24
28	284.8	284.8	249.7	249.7	-	-	-	-	-	-	28
32	263.9	263.9	232.5	232.5	201.1	201.1	175.6	175.6	-	-	32
36	244.1	244.1	218.0	218.0	188.0	188.0	165.1	165.1	141.3	141.3	36
40	224.6	224.6	204.1	204.1	175.6	175.6	155.1	155.1	133.8	133.8	40
48	193.8	193.8	179.6	179.6	155.3	155.3	138.0	138.0	120.1	120.1	48
56	168.8	168.8	158.5	158.5	138.6	138.6	123.5	123.5	107.8	107.8	56
64	148.4	149.4	140.4	140.4	124.2	124.2	111.2	111.2	97.1	97.1	64
72	124.9	130.7	124.7	124.9	112.0	112.0	100.5	100.5	87.7	87.7	72
80	105.5	114.9	105.4	111.9	101.5	101.5	91.5	91.5	79.8	79.8	80
88	90.3	101.6	90.1	100.8	91.1	92.5	83.8	83.8	73.1	73.1	88
96	78.1	90.8	77.9	90.6	79.4	85.0	76.9	76.9	67.3	67.3	96
104	71.4	81.6	68.0	81.3	69.3	78.8	70.8	71.2	62.5	62.5	104
112	63.8	66.6	59.8	73.5	60.9	73.1	62.9	65.9	57.8	57.8	112
120	-	-	53.3	66.9	54.1	67.8	56.0	61.8	53.7	53.7	120
128	-	-	49.9	61.0	48.1	61.9	50.0	57.9	49.7	50.0	128
136	-	-	-	-	43.3	56.7	44.8	54.4	45.0	46.6	136
144	-	-	-	-	40.7	52.2	40.1	51.1	40.1	43.8	144
152	-	-	-	-	-	-	36.1	48.1	36.1	40.9	152
160	-	-	-	-	-	-	-	-	32.3	38.6	160
168	-	-	-	-	-	-	-	-	29.2	36.4	168

* Max. values are valid only for specific superstructure positions

 132,300 lb		360° / Max.*								85%	
	360° 48.2 ft	Max. 48.2 ft	360° 63.3 ft	Max. 63.3 ft	360° 78.7 ft	Max. 78.7 ft	360° 93.8 ft	Max. 93.8 ft	360° 108.9 ft	Max. 108.9 ft	
ft	1,000 lb										ft
10	551.2	551.2	-	-	-	-	-	-	-	-	10
12	551.2	551.2	-	-	-	-	-	-	-	-	12
14	551.2	551.2	551.2	551.2	540.1	540.1	-	-	-	-	14
16	531.2	537.2	529.5	534.9	526.8	533.9	-	-	-	-	16
18	495.8	495.8	495.8	495.8	493.6	493.6	448.0	448.0	-	-	18
20	459.2	459.2	459.2	459.2	457.0	457.0	429.4	429.4	363.9	363.9	20
24	386.1	386.1	386.1	386.1	383.9	383.9	386.1	386.1	337.0	337.0	24
28	324.8	324.8	324.8	324.8	327.0	327.0	324.8	324.8	312.5	312.5	28
32	277.6	277.6	277.6	277.6	279.8	279.8	277.6	277.6	277.6	279.3	32
36	228.9	245.8	229.2	245.9	232.2	247.9	229.0	245.5	231.7	248.4	36
40	-	-	182.3	217.8	186.3	220.0	192.2	217.3	187.6	220.4	40
48	-	-	130.2	175.4	136.9	177.4	135.6	178.4	131.3	177.8	48
56	-	-	101.4	145.3	103.1	147.1	101.8	150.0	105.6	147.4	56
64	-	-	-	-	80.9	124.5	84.3	127.4	83.1	124.8	64
72	-	-	-	-	67.9	104.5	68.7	107.6	68.8	104.1	72
80	-	-	-	-	-	-	57.2	89.7	57.8	89.3	80
88	-	-	-	-	-	-	-	-	48.7	79.0	88
96	-	-	-	-	-	-	-	-	41.6	68.2	96
104	-	-	-	-	-	-	-	-	35.9	59.6	104

	360° 124.3 ft	Max. 124.3 ft	360° 139.4 ft	Max. 139.4 ft	360° 154.9 ft	Max. 154.9 ft	360° 169.9 ft	Max. 169.9 ft	360° 183.7 ft	Max. 183.7 ft	
ft	1,000 lb										ft
24	307.5	307.5	-	-	-	-	-	-	-	-	24
28	284.8	284.8	249.7	249.7	-	-	-	-	-	-	28
32	257.3	263.9	232.5	232.5	201.1	201.1	175.6	175.6	-	-	32
36	221.1	241.7	207.7	218.0	188.0	188.0	165.1	165.1	141.3	141.3	36
40	184.3	218.6	180.5	204.1	173.7	175.6	155.1	155.1	133.8	133.8	40
48	133.9	176.1	128.7	176.1	130.7	155.2	132.4	138.0	119.8	120.1	48
56	102.6	145.8	102.7	145.6	102.2	138.3	99.8	123.5	100.1	107.8	56
64	83.6	123.0	82.5	121.3	79.8	118.7	77.5	111.2	77.8	97.1	64
72	67.8	102.8	66.5	101.6	63.8	100.0	61.6	99.3	62.1	87.7	72
80	56.3	88.1	55.1	83.9	52.5	85.5	50.3	85.8	50.5	79.8	80
88	47.4	74.5	46.1	71.5	43.6	71.9	41.2	74.0	41.5	72.4	88
96	40.2	65.0	38.9	64.9	36.1	64.1	33.6	63.1	34.0	63.3	96
104	34.2	57.0	32.7	57.2	30.0	56.4	27.6	54.5	27.8	54.8	104
112	29.1	50.2	27.8	51.5	24.9	49.5	22.5	47.7	22.7	47.7	112
120	-	-	23.6	46.2	20.7	43.8	18.3	41.9	18.5	42.2	120
128	-	-	20.0	41.3	17.2	38.9	14.8	36.8	15.0	37.0	128
136	-	-	-	-	14.1	34.6	11.7	32.3	11.9	32.5	136
144	-	-	-	-	11.6	30.8	9.1	28.6	9.2	28.6	144
152	-	-	-	-	-	-	6.8	25.2	6.8	25.2	152
160	-	-	-	-	-	-	-	-	-	22.3	160
168	-	-	-	-	-	-	-	-	-	19.7	168

* Max. values are valid only for specific superstructure positions

 0 lb		360° / Max.*										85%
	360° 48.2 ft	Max. 48.2 ft	360° 63.3 ft	Max. 63.3 ft	360° 78.7 ft	Max. 78.7 ft	360° 93.8 ft	Max. 93.8 ft	360° 108.9 ft	Max. 108.9 ft		
ft	1,000 lb										ft	
10	551.2	551.2	-	-	-	-	-	-	-	-	10	
12	551.2	551.2	-	-	-	-	-	-	-	-	12	
14	537.0	537.0	535.9	535.9	530.7	530.7	-	-	-	-	14	
16	479.8	479.8	479.8	479.8	439.4	472.9	-	-	-	-	16	
18	407.3	429.1	379.5	429.3	344.2	427.0	289.2	427.7	-	-	18	
20	333.6	385.1	286.7	385.4	261.0	387.3	225.1	382.7	193.1	357.4	20	
24	190.2	319.8	187.1	320.1	171.1	316.9	161.3	284.6	144.8	256.2	24	
28	111.4	266.1	124.4	258.1	126.1	243.6	118.8	222.5	111.3	197.1	28	
32	71.7	220.8	82.7	200.0	90.0	195.3	89.8	177.5	86.7	164.7	32	
36	52.0	167.1	61.5	164.2	68.0	162.4	69.2	149.1	68.6	143.8	36	
40	-	-	44.6	132.7	50.4	133.7	51.5	130.9	52.4	120.8	40	
48	-	-	27.1	89.6	32.0	95.1	32.9	96.1	33.7	92.4	48	
56	-	-	16.6	63.4	21.0	68.7	21.9	69.6	22.6	70.0	56	
64	-	-	-	-	13.8	50.7	14.5	51.6	15.2	52.3	64	
72	-	-	-	-	8.1	38.6	8.9	39.3	9.6	39.9	72	
80	-	-	-	-	-	-	-	31.1	-	31.6	80	
88	-	-	-	-	-	-	-	-	-	25.4	88	
96	-	-	-	-	-	-	-	-	-	20.5	96	
104	-	-	-	-	-	-	-	-	-	16.6	104	

	360° 124.3 ft	Max. 124.3 ft	360° 139.4 ft	Max. 139.4 ft	360° 154.9 ft	Max. 154.9 ft	360° 169.9 ft	Max. 169.9 ft	360° 183.7 ft	Max. 183.7 ft	
ft	1,000 lb										ft
24	134.0	225.0	121.8	173.1	-	-	-	-	-	-	24
28	101.3	178.9	92.9	163.9	83.0	160.4	-	-	-	-	28
32	79.3	152.2	73.2	144.8	65.1	131.5	58.0	117.8	-	-	32
36	64.1	131.0	59.8	124.0	52.9	111.0	46.9	99.7	44.6	94.1	36
40	50.6	113.1	47.9	103.8	42.2	93.0	36.9	83.8	35.2	80.4	40
48	32.2	84.4	30.9	77.8	27.4	69.9	22.4	63.8	21.0	61.5	48
56	21.0	65.4	19.9	60.5	15.8	54.6	11.5	49.5	10.6	47.8	56
64	13.7	50.5	12.4	47.7	8.2	43.3	-	38.8	-	37.6	64
72	7.8	38.4	6.5	36.8	-	34.1	-	30.4	-	29.3	72
80	-	30.0	-	28.9	-	26.1	-	23.1	-	22.2	80
88	-	23.8	-	22.7	-	20.0	-	17.3	-	16.7	88
96	-	18.9	-	17.7	-	15.1	-	12.8	-	12.2	96
104	-	14.8	-	13.7	-	11.0	-	8.8	-	8.4	104
112	-	11.8	-	10.4	-	7.8	-	-	-	-	112
120	-	-	-	7.8	-	-	-	-	-	-	120
128	-	-	-	5.5	-	-	-	-	-	-	128

* Max. values are valid only for specific superstructure positions

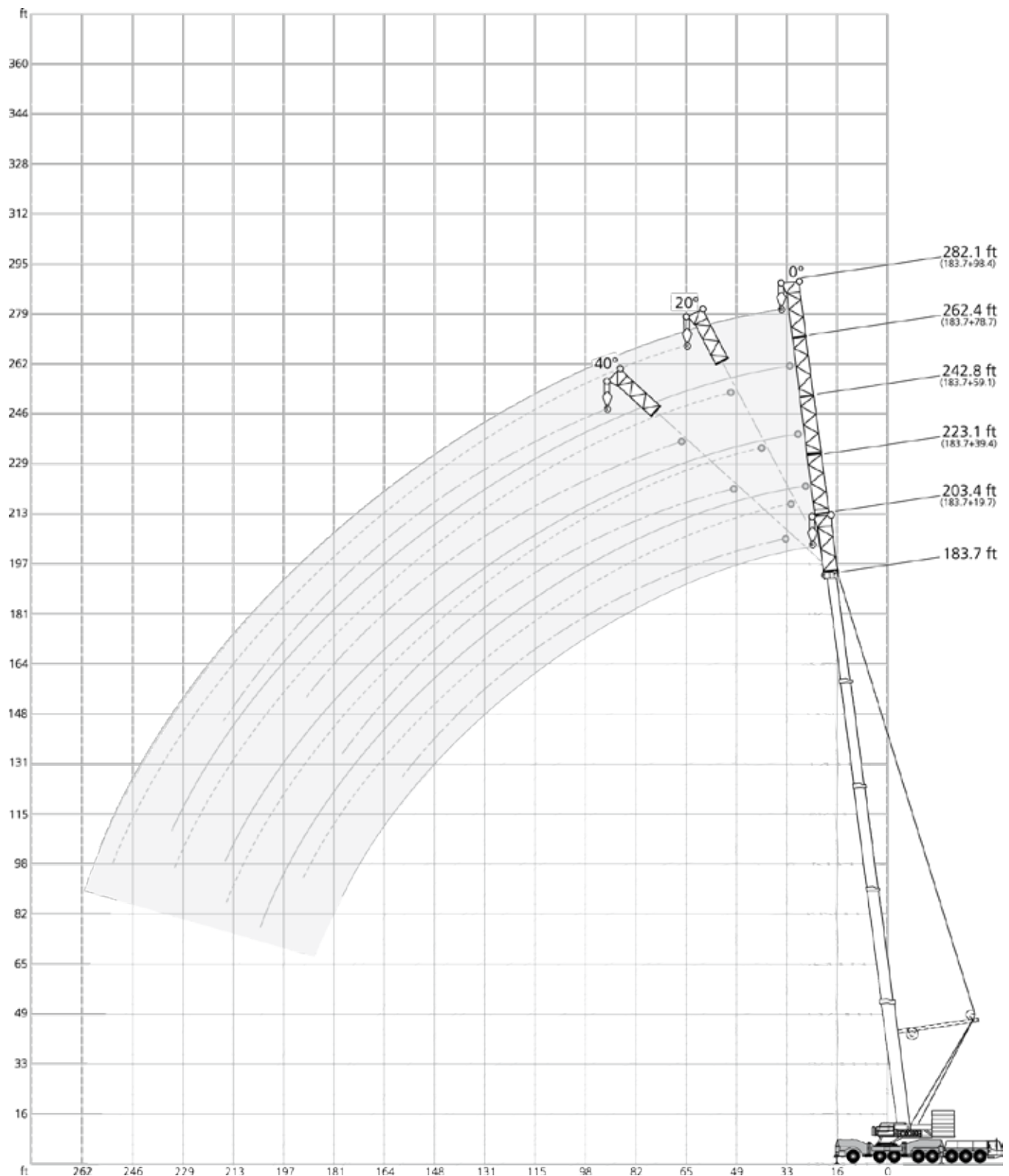
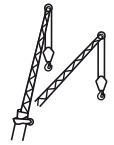
 396,800 lb		360°							85%
		93.8 ft	108.9 ft	124.3 ft	139.4 ft	154.9 ft	169.9 ft	183.7 ft	
ft					1,000 lb				ft
18	387.1	-	-	-	-	-	-	-	18
20	380.3	411.0	-	-	-	-	-	-	20
24	366.9	394.2	362.5	326.4	-	-	-	-	24
28	355.8	369.5	349.1	318.3	272.0	-	-	-	28
32	337.8	333.9	327.3	310.3	265.6	256.8*	-	-	32
36	309.3	306.9	298.3	290.4	258.1	238.5*	217.3*	-	36
40	281.0	278.8	270.0	267.6	249.6	220.3*	202.5*	-	40
48	238.6	236.4	228.4	225.4	224.9	199.9	176.5*	-	48
56	203.6	202.1	197.8	194.6	193.8	187.6	157.1	-	56
64	174.1	172.5	170.1	170.0	169.6	169.1	147.4	-	64
72	150.9	154.6	146.9	155.1	150.3	150.1	138.2	-	72
80	132.1	138.6	128.7	137.5	132.0	134.4	129.6	-	80
88	-	123.6	113.9	122.5	116.9	119.3	119.5	-	88
96	-	108.4	101.2	109.8	104.3	106.5	107.0	-	96
104	-	-	90.5	99.0	93.6	95.8	96.1	-	104
112	-	-	78.4	89.9	84.4	86.6	86.8	-	112
120	-	-	-	81.5	76.5	78.5	79.0	-	120
128	-	-	-	61.9	69.5	71.6	71.9	-	128
136	-	-	-	-	62.8	65.3	65.7	-	136
144	-	-	-	-	52.1	59.8	60.0	-	144
152	-	-	-	-	-	53.8	54.9	-	152
160	-	-	-	-	-	-	50.4	-	160
168	-	-	-	-	-	-	43.8	-	168

 264,600 lb		360°							85%
		93.8 ft	108.9 ft	124.3 ft	139.4 ft	154.9 ft	169.9 ft	183.7 ft	
ft					1,000 lb				ft
18	387.1	-	-	-	-	-	-	-	18
20	380.3	411.0	-	-	-	-	-	-	20
24	366.9	392.8	362.5	326.4	-	-	-	-	24
28	354.6	360.4	349.1	318.3	272.0	-	-	-	28
32	325.6	321.3	320.6	310.3	265.6	256.8*	-	-	32
36	289.6	289.6	287.0	284.0	258.1	238.5*	217.3*	-	36
40	258.1	255.9	253.7	254.1	248.4	220.3*	202.5*	-	40
48	211.0	209.6	207.3	208.0	210.7	199.4	176.5*	-	48
56	175.7	178.4	172.2	178.9	175.5	177.8	157.1	-	56
64	148.0	154.1	144.4	153.3	147.9	150.2	147.4	-	64
72	125.5	131.9	121.1	130.6	124.2	127.0	127.5	-	72
80	106.1	112.3	101.7	111.1	104.8	107.4*	108.0	-	80
88	-	96.7	86.1	95.6	89.2	91.9*	92.3*	-	88
96	-	84.1	73.5	82.7	76.5	79.0*	79.4*	-	96
104	-	-	63.1	72.2	66.0	68.5*	68.9*	-	104
112	-	-	54.2	63.5	57.3	60.0*	60.2*	-	112
120	-	-	-	56.5	49.8	52.4*	52.8*	-	120
128	-	-	-	40.8	43.4	45.9*	46.3*	-	128
136	-	-	-	-	37.8	40.2*	40.7*	-	136
144	-	-	-	-	33.1	35.3*	35.7*	-	144
152	-	-	-	-	-	31.2*	31.4*	-	152
160	-	-	-	-	-	-	27.6*	-	160
168	-	-	-	-	-	-	24.3*	-	168

*  30°

 176,400 lb		360°							85%
 ft	 93.8 ft	108.9 ft	124.3 ft	139.4 ft	154.9 ft	169.9 ft	183.7 ft	 ft	
1,000 lb									
18	387.1	-	-	-	-	-	-	18	
20	380.3	411.0	-	-	-	-	-	20	
24	366.9	385.8	362.5	326.4	-	-	-	24	
28	340.5	334.8	334.9	318.3	272.0	-	-	28	
32	297.5	295.3	292.5	293.7	265.6	256.8*	-	32	
36	260.9	260.9	258.7	258.7	247.4	238.5*	217.3*	36	
40	228.0	227.8	225.6	225.5	225.1	218.9*	202.1*	40	
48	174.4	181.7	169.3	180.3	172.9	172.5*	169.5*	48	
56	131.3	138.3	126.4	137.2	129.7	132.9*	133.5*	56	
64	102.1	108.9	97.5	107.7	100.8	103.7*	104.4*	64	
72	81.6	88.2	76.9	87.1	80.2	83.1*	83.5*	72	
80	66.8	73.2	62.1	72.1	65.5	68.2*	68.6*	80	
88	-	61.6	49.9	60.5	53.6	56.7*	57.1*	88	
96	-	52.5	40.5	51.1	43.9	46.9*	47.3*	96	
104	-	-	32.7	43.0	36.0	38.8*	39.3*	104	
112	-	-	26.4	36.5	29.4	32.3*	32.7*	112	
120	-	-	-	31.0	24.0	26.8*	27.1*	120	
128	-	-	-	17.0	19.5	22.0*	22.5*	128	
136	-	-	-	-	15.6	18.0*	18.3*	136	
144	-	-	-	-	12.3	14.5*	14.7*	144	
152	-	-	-	-	-	11.5*	11.8*	152	
160	-	-	-	-	-	-	9.2*	160	
168	-	-	-	-	-	-	6.9*	168	

*  30°



 308,600 lb					360°										85%	
 183.7 ft																
 ft	 19.7 ft	39.4 ft			59.1 ft			78.7 ft			98.4 ft					
		0°	20°	40°*	0°	20°	40°*	0°	20°	40°*	0°	20°	40°*			
1,000 lb																
40	105.8	-	-	-	-	-	-	-	-	-	-	-	-	-	40	
48	94.8	80.5	-	-	67.0	-	-	-	-	-	-	-	-	-	48	
56	85.3	72.3	61.6	-	61.1	-	-	53.2	-	-	46.4	-	-	-	56	
64	77.2	65.3	57.3	-	55.9	-	-	48.9	-	-	42.6	-	-	-	64	
72	70.0	59.2	53.2	47.2	51.2	41.7	-	45.1	-	-	39.3	-	-	-	72	
80	64.2	54.2	49.5	44.8	47.2	39.3	34.0	41.6	33.0	-	36.4	-	-	-	80	
88	59.1	49.9	46.1	42.4	43.7	37.2	32.6	38.6	31.2	-	33.8	-	-	-	88	
96	54.7	46.3	43.0	39.9	40.4	35.2	31.2	35.9	29.4	25.2	31.4	24.9	-	-	96	
104	50.5	42.9	40.2	37.6	37.8	33.3	29.9	33.6	27.9	24.2	29.3	23.5	-	-	104	
112	46.8	40.0	37.8	35.4	35.2	31.4	28.6	31.2	26.4	23.3	27.5	22.4	19.4	-	112	
120	43.6	37.3	35.4	33.4	33.0	29.8	27.5	29.3	25.1	22.5	25.6	21.4	18.5	-	120	
128	40.4	34.8	33.4	31.4	30.9	28.1	26.2	27.5	23.9	21.7	24.1	20.3	17.7	-	128	
136	37.6	32.5	31.3	29.5	28.9	26.6	25.2	25.9	22.7	20.7	22.6	19.2	16.9	-	136	
144	35.2	30.3	29.6	28.1	27.2	25.2	24.1	24.3	21.7	19.9	21.2	18.3	16.3	-	144	
152	32.8	28.4	28.0	26.5	25.4	23.9	23.0	22.7	20.6	19.1	20.1	17.3	15.6	-	152	
160	30.9	26.7	26.4	25.2	24.0	22.7	22.1	21.4	19.7	18.4	18.8	16.5	15.0	-	160	
168	29.2	25.1	24.9	-	22.5	21.5	21.1	20.1	18.8	17.7	17.8	15.7	14.5	-	168	
176	27.6	23.8	23.6	-	21.1	20.4	20.2	18.7	18.0	16.9	16.7	14.9	14.0	-	176	
184	26.1	22.5	22.3	-	20.0	19.4	-	17.6	17.1	16.2	15.6	14.1	13.4	-	184	
192	-	21.4	21.1	-	18.7	18.3	-	16.5	16.1	15.5	14.6	13.3	12.9	-	192	
200	-	20.3	19.9	-	17.7	17.2	-	15.5	15.2	15.0	13.6	12.6	12.4	-	200	
208	-	-	-	-	16.7	16.2	-	14.5	14.5	-	12.8	11.7	11.8	-	208	
216	-	-	-	-	15.7	15.3	-	13.5	13.5	-	12.0	11.1	11.3	-	216	
224	-	-	-	-	-	-	-	12.7	12.6	-	11.1	10.4	-	-	224	
232	-	-	-	-	-	-	-	11.9	11.8	-	10.1	9.7	-	-	232	
240	-	-	-	-	-	-	-	11.1	-	-	9.3	9.0	-	-	240	
248	-	-	-	-	-	-	-	-	-	-	8.5	8.2	-	-	248	
256	-	-	-	-	-	-	-	-	-	-	7.7	7.5	-	-	256	

 88,200 lb		360°												85%	
 183.7 ft															
 ft	 19.7 ft	39.4 ft			59.1 ft			78.7 ft			98.4 ft			 ft	
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
1,000 lb															
40	105.8	-	-	-	-	-	-	-	-	-	-	-	-	40	
48	92.4	80.5	-	-	67.0	-	-	-	-	-	-	-	-	48	
56	72.8	69.3	61.6	-	61.1	-	-	53.2	-	-	46.4	-	-	56	
64	55.7	54.4	57.3	-	52.9	-	-	48.9	-	-	42.6	-	-	64	
72	43.3	42.1	48.1	47.2	41.9	41.7	-	41.6	-	-	39.3	-	-	72	
80	34.0	33.0	38.2	42.5	33.0	38.8	34.0	33.0	33.0	-	33.2	-	-	80	
88	26.7	25.9	30.5	34.2	25.9	32.7	32.6	26.1	31.2	-	26.4	-	-	88	
96	20.7	20.1	24.1	27.3	20.3	26.0	30.3	20.5	27.7	25.2	20.9	24.9	-	96	
104	15.8	15.5	18.9	21.6	15.6	20.9	25.4	15.8	22.7	24.2	16.4	23.5	-	104	
112	11.7	11.5	14.5	16.7	11.7	16.3	20.5	11.9	18.3	23.2	12.6	20.3	19.4	112	
120	8.3	8.1	10.6	12.6	8.6	12.7	16.3	8.8	14.4	19.6	9.4	16.4	18.5	120	
128	-	-	7.4	9.0	5.7	9.6	12.7	6.2	11.1	15.7	6.7	13.1	17.7	128	
136	-	-	-	6.0	-	6.8	9.3	-	8.3	12.4	-	10.1	15.5	136	
144	-	-	-	-	-	-	6.3	-	5.8	9.6	-	7.6	12.5	144	
152	-	-	-	-	-	-	-	-	-	6.9	-	-	9.8	152	
160	-	-	-	-	-	-	-	-	-	-	-	-	7.3	160	
168	-	-	-	-	-	-	-	-	-	-	-	-	5.2	168	

*  264,600 lb

 396,800 lb					360°										85%	
 183.7 ft  0°																
 ft		19.7 ft	39.4 ft			59.1 ft			78.7 ft			98.4 ft			 ft	
		0°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
1,000 lb																
32		110.2	-	-	-	-	-	-	-	-	-	-	-	-	32	
36		110.2	-	-	-	-	-	-	-	-	-	-	-	-	36	
40		110.2	100.6	-	-	82.4	-	-	-	-	-	-	-	-	40	
48		110.2	98.9	-	-	81.4	-	-	65.9	-	-	54.6	-	-	48	
56		110.2	96.5	83.6	-	79.9	-	-	62.4	-	-	52.0	-	-	56	
64		108.2	93.5	79.9	66.2	77.8	57.1	-	59.1	-	-	49.4	-	-	64	
72		104.8	90.2	76.4	63.6	75.2	54.1	-	55.8	39.3	-	46.8	-	-	72	
80		101.3	86.4	72.6	61.1	72.2	51.4	41.0	52.7	37.6	-	44.4	-	-	80	
88		97.5	82.5	68.8	58.8	68.9	49.0	39.8	49.8	35.9	-	42.2	30.4	-	88	
96		93.6	78.6	65.2	56.8	65.6	46.7	38.5	47.0	34.4	28.5	39.9	29.1	-	96	
104		89.6	74.8	61.7	54.9	62.3	44.8	37.6	44.4	33.2	27.7	37.7	27.7	-	104	
112		85.5	70.8	58.5	53.0	58.9	42.9	36.6	42.0	31.9	27.1	35.8	26.6	21.8	112	
128		73.3	63.9	53.3	49.8	52.9	39.8	34.7	37.8	29.9	25.9	32.2	24.6	20.5	128	
144		61.3	57.7	49.5	47.2	47.7	37.3	33.3	34.5	28.0	24.9	29.2	23.0	19.4	144	
160		51.6	51.6	46.3	-	43.2	35.2	32.5	31.8	26.5	24.1	26.6	21.4	18.6	160	
168		47.4	47.4	45.0	-	41.2	34.3	32.1	30.6	25.8	23.7	25.7	20.7	18.2	168	
176		43.4	43.7	43.2	-	39.5	33.5	31.8	29.6	25.2	23.4	24.7	20.1	17.9	176	
184		-	40.2	41.1	-	37.9	32.8	-	28.6	24.7	23.1	23.8	19.6	17.6	184	
192		-	37.1	37.9	-	36.5	32.3	-	28.0	24.1	22.9	23.0	19.1	17.4	192	
200		-	33.7	-	-	34.9	31.9	-	27.2	23.7	-	22.3	18.5	17.1	200	
208		-	-	-	-	32.4	31.6	-	26.4	23.2	-	21.6	18.0	17.0	208	
216		-	-	-	-	29.6	30.7	-	25.8	22.7	-	21.0	17.7	16.8	216	
224		-	-	-	-	-	-	-	25.3	22.5	-	20.4	17.4	-	224	
232		-	-	-	-	-	-	-	24.6	22.2	-	19.8	17.1	-	232	
240		-	-	-	-	-	-	-	-	-	-	19.1	16.8	-	240	
248		-	-	-	-	-	-	-	-	-	-	18.6	16.6	-	248	
256		-	-	-	-	-	-	-	-	-	-	17.9	-	-	256	

 220,500 lb				360°												85%	
 183.7 ft  0°																	
 ft	 19.7 ft	39.4 ft			59.1 ft			78.7 ft			98.4 ft			 ft			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°				
1,000 lb																	
32	110.2	-	-	-	-	-	-	-	-	-	-	-	-	-	32		
36	110.2	-	-	-	-	-	-	-	-	-	-	-	-	-	36		
40	110.2	100.6	-	-	82.4	-	-	-	-	-	-	-	-	-	40		
48	110.2	98.9	-	-	81.4	-	-	65.9	-	-	-	54.6	-	-	48		
56	110.2	96.5	83.6	-	79.9	-	-	62.4	-	-	-	52.0	-	-	56		
64	108.2	93.5	79.9	66.2	77.8	57.1	-	59.1	-	-	-	49.4	-	-	64		
72	104.8	90.2	76.4	63.6	75.2	54.1	-	55.8	39.3	-	-	46.8	-	-	72		
80	91.1	86.1	72.6	61.1	72.2	51.4	41.0	52.7	37.6	-	-	44.4	-	-	80		
88	77.2	77.6	68.8	58.8	68.9	49.0	39.8	49.8	35.9	-	-	42.2	30.4	-	88		
96	65.9	66.4	65.2	56.8	65.6	46.7	38.5	47.0	34.4	28.5	-	39.9	29.1	-	96		
104	56.7	57.1	60.2	54.9	58.4	44.8	37.6	44.4	33.2	27.7	-	37.7	27.7	-	104		
112	48.8	49.2	52.5	52.9	50.5	42.9	36.6	42.0	31.9	27.1	-	35.8	26.6	21.8	112		
128	36.2	36.6	39.5	41.5	37.9	39.8	34.7	37.8	29.9	25.9	-	32.2	24.6	20.5	128		
144	26.9	27.1	29.3	30.9	28.4	32.0	33.3	30.0	28.0	24.9	-	29.2	23.0	19.4	144		
152	23.1	23.3	25.4	26.5	24.6	27.9	29.8	26.2	27.2	24.5	-	26.8	22.2	19.0	152		
160	19.6	19.8	21.6	-	21.1	24.1	26.2	22.6	25.8	24.1	-	24.2	21.4	18.6	160		
168	16.6	16.8	18.3	-	18.0	20.7	22.4	19.5	23.0	23.7	-	21.1	20.7	18.2	168		
176	13.9	14.2	15.4	-	15.3	17.7	19.0	16.7	20.1	22.3	-	18.2	20.1	17.9	176		
184	-	11.6	12.7	-	12.7	14.9	-	14.0	17.1	19.3	-	15.6	19.5	17.6	184		
192	-	9.5	10.3	-	10.6	12.4	-	11.9	14.7	16.5	-	13.3	17.0	17.4	192		
200	-	7.4	-	-	8.5	10.0	-	9.8	12.4	-	-	11.2	14.6	16.4	200		
208	-	-	-	-	6.6	8.0	-	8.0	10.2	-	-	9.3	12.4	14.4	208		
216	-	-	-	-	5.0	6.1	-	6.3	8.1	-	-	7.4	10.3	12.1	216		
224	-	-	-	-	-	-	-	-	6.4	-	-	6.0	8.4	-	224		
232	-	-	-	-	-	-	-	-	-	-	-	-	6.6	-	232		

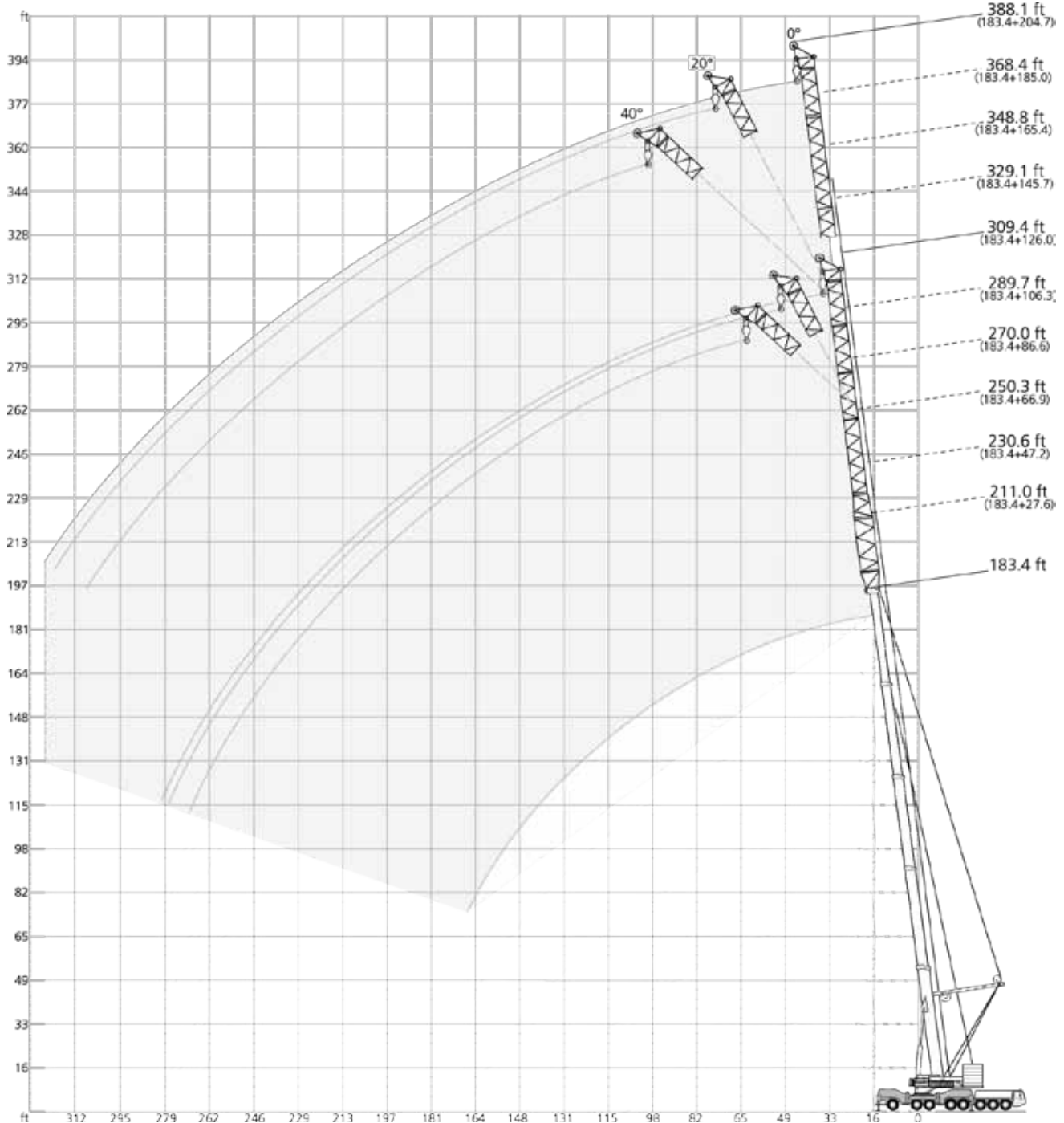
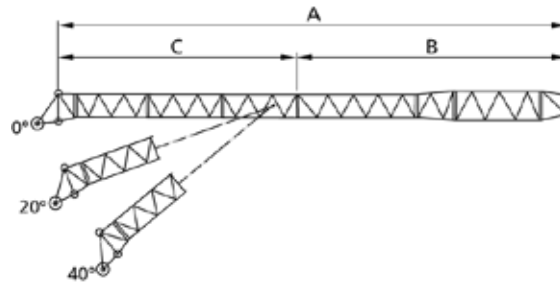
396,800 lb		360°				85%
						
		39.4 ft 0°	59.1 ft 0°	78.7 ft 0°	98.4 ft 0°	
ft		1,000 lb				ft
40		107.7	92.0	-	-	40
48		103.6	86.9	71.1	61.6	48
56		99.1	82.1	65.0	56.2	56
64		94.1	77.3	59.7	51.4	64
72		88.7	72.6	55.0	47.3	72
80		83.4	68.3	51.0	43.8	80
88		78.0	64.1	47.6	40.7	88
96		72.8	60.2	44.5	38.0	96
104		67.8	56.6	42.2	35.8	104
112		63.0	53.2	39.8	33.6	112
120		59.0	50.0	37.9	32.0	120
128		55.2	47.2	36.0	30.4	128
136		51.9	44.6	34.4	29.0	136
144		48.6	42.2	32.9	27.6	144
152		45.7	40.1	31.6	26.4	152
160		42.8	38.0	30.2	25.2	160
168		40.3	36.1	28.9	24.2	168
176		37.7	34.2	27.7	23.2	176
184		35.2	32.3	26.6	22.2	184
192		32.8	30.6	25.7	21.4	192
200		30.2	28.9	24.7	20.5	200
208		-	26.9	23.6	19.8	208
216		-	25.0	22.7	19.1	216
224		-	-	21.7	18.4	224
232		-	-	20.6	17.8	232
240		-	-	-	16.9	240
248		-	-	-	16.4	248

220,500 lb		360°				85%
						
		39.4 ft 0°	59.1 ft 0°	78.7 ft 0°	98.4 ft 0°	
ft		1,000 lb				ft
40		107.7	92.0	-	-	40
48		103.6	86.9	71.1	61.6	48
56		99.1	82.1	65.0	56.2	56
64		94.1	77.3	59.7	51.4	64
72		88.7	72.6	55.0	47.3	72
80		83.4	68.3	51.0	43.8	80
88		76.5	64.1	47.6	40.7	88
96		66.4	60.2	44.5	38.0	96
104		57.1	56.6	42.2	35.8	104
112		49.2	50.5	39.8	33.6	112
120		42.4	43.9	37.9	32.0	120
128		36.6	37.9	36.0	30.4	128
136		31.7	33.0	33.3	29.0	136
144		27.1	28.4	29.9	27.6	144
152		23.3	24.6	26.2	26.1	152
160		19.8	21.1	22.6	24.2	160
168		16.8	18.0	19.5	21.1	168
176		14.2	15.3	16.7	18.2	176
184		11.6	12.7	14.0	15.6	184
192		9.5	10.6	11.9	13.3	192
200		7.3	8.4	9.7	11.3	200
208		-	6.6	7.9	9.3	208
216		-	5.0	6.3	7.4	216
224		-	-	-	6.0	224



A	B	C 0° / 20° / 40°
86.6 ft	48.9 ft	37.7 ft
106.3 ft	48.9 ft	57.4 ft
126.0 ft	68.6 ft	57.4 ft
145.7 ft	68.6 ft	77.0 ft
165.4 ft	88.2 ft	77.0 ft
185.0 ft	88.2 ft	96.8 ft
204.7 ft	107.9 ft	96.8 ft

(27.6 ft, 47.2 ft and 66.9 ft only 0°)



360°													85 %	
 183.4 ft														
		27.6 ft 0°	47.2 ft 0°	66.9 ft 0°	86.6 ft			106.3 ft			126.0 ft			
ft					0°	20°	40°	0°	20°	40°	0°	20°	40°	ft
1,000 lb														
48	88.0	74.9	-	-	-	-	-	-	-	-	-	-	-	48
56	78.2	67.1	60.1	50.6	-	-	-	-	-	-	-	-	-	56
64	70.0	60.4	54.8	46.1	-	-	-	40.7	-	-	35.7	-	-	64
72	62.8	54.4	49.9	42.0	38.0	-	-	37.1	-	-	32.5	-	-	72
80	57.2	49.5	45.9	38.6	35.1	33.2	-	34.1	30.1	-	29.8	-	-	80
88	52.1	45.0	42.0	35.4	32.5	31.0	-	31.3	27.9	-	27.2	24.9	-	88
96	47.6	41.1	38.5	32.6	30.2	28.9	-	28.8	26.0	24.3	24.9	23.0	21.9	96
104	44.0	37.7	35.5	30.1	28.2	27.1	-	26.6	24.2	22.9	22.9	21.4	20.4	104
112	40.6	34.7	32.7	27.7	26.4	25.3	-	24.6	22.6	21.3	21.1	19.8	19.1	112
120	37.7	32.1	30.4	25.8	24.8	23.9	-	22.8	21.1	20.2	19.5	18.4	17.8	120
128	34.9	29.8	28.3	24.0	23.1	22.4	-	21.2	19.7	19.0	18.0	17.1	16.6	128
136	32.5	27.6	26.2	22.4	21.7	21.2	-	19.7	18.5	17.9	16.8	15.9	15.5	136
144	30.4	25.8	24.5	20.9	20.3	19.9	-	18.5	17.5	16.8	15.6	14.8	14.6	144
152	28.4	24.0	22.9	19.4	19.1	18.8	-	17.3	16.4	15.9	14.4	13.9	13.7	152
160	26.7	22.4	21.5	18.1	17.9	17.8	-	16.0	15.4	15.0	13.3	13.0	12.8	160
168	24.9	20.9	20.1	16.8	16.7	16.8	-	14.9	14.4	14.2	12.3	12.2	11.9	168
176	23.2	19.6	18.9	15.6	15.7	15.9	-	13.8	13.6	13.4	11.4	11.4	11.2	176
184	21.4	18.4	17.9	14.6	14.7	15.0	-	12.9	12.8	12.8	10.6	10.6	10.6	184
192	19.7	17.2	17.0	13.7	13.7	13.9	-	11.9	12.0	12.0	9.8	9.7	9.8	192
200	17.9	16.1	16.1	12.8	12.7	12.8	-	11.0	11.1	11.3	9.1	9.0	9.1	200
208	-	15.0	15.2	11.9	11.9	-	-	10.3	10.3	10.5	8.4	8.4	8.5	208
216	-	13.7	14.4	11.1	11.2	-	-	9.5	9.6	9.8	7.5	7.8	8.0	216
224	-	-	13.6	10.5	10.5	-	-	8.9	9.0	-	7.0	7.2	7.4	224
232	-	-	12.8	9.8	9.8	-	-	8.2	8.4	-	6.5	6.7	6.7	232
240	-	-	-	9.2	9.2	-	-	7.7	7.9	-	5.9	6.1	-	240
248	-	-	-	8.7	-	-	-	7.1	7.4	-	5.4	5.6	-	248
256	-	-	-	8.2	-	-	-	6.6	6.8	-	4.8	5.1	-	256
264	-	-	-	-	-	-	-	6.3	6.3	-	-	-	-	264
272	-	-	-	-	-	-	-	5.8	-	-	-	-	-	272

	145.7 ft			165.4 ft			185.0 ft			204.7 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft				1,000 lb									ft
72	29.4	-	-	-	-	-	-	-	-	-	-	-	72
80	27.0	-	-	23.7	-	-	20.9	-	-	-	-	-	80
88	24.7	-	-	21.6	-	-	19.3	-	-	16.7	-	-	88
96	22.7	20.6	-	19.8	-	-	17.7	-	-	15.2	-	-	96
104	20.8	19.1	-	18.1	16.9	-	16.2	-	-	13.8	-	-	104
112	19.1	17.8	16.7	16.5	15.6	-	14.7	13.6	-	12.5	-	-	112
120	17.6	16.5	15.6	15.1	14.5	14.1	13.4	12.5	-	11.3	10.8	-	120
128	16.3	15.3	14.7	13.8	13.4	13.0	12.1	11.6	-	10.1	9.9	-	128
136	15.0	14.2	13.7	12.6	12.4	12.1	11.0	10.7	10.5	9.1	9.0	-	136
144	13.9	13.3	12.8	11.6	11.3	11.3	10.1	9.7	9.7	8.0	8.2	8.4	144
152	12.9	12.3	12.0	10.7	10.5	10.5	9.1	8.9	8.9	6.9	7.4	7.6	152
160	11.9	11.4	11.2	9.7	9.7	9.7	8.2	8.1	8.2	6.1	6.6	6.8	160
168	11.1	10.6	10.4	8.9	8.9	8.9	7.4	7.3	7.5	5.4	5.8	6.2	168
176	10.3	9.9	9.7	8.3	8.1	8.1	6.7	6.7	6.9	4.7	5.1	5.6	176
184	9.5	9.2	9.0	7.6	7.5	7.5	6.0	6.2	6.4	-	-	4.8	184
192	8.7	8.6	8.5	6.9	6.8	6.9	5.4	5.5	5.6	-	-	-	192
200	7.9	7.9	7.9	6.2	6.2	6.4	4.9	4.9	5.1	-	-	-	200
208	7.3	7.3	7.4	5.6	5.6	5.9	-	-	4.7	-	-	-	208
216	6.7	6.8	6.9	5.1	5.1	5.3	-	-	-	-	-	-	216
224	6.1	6.3	6.3	-	-	4.8	-	-	-	-	-	-	224
232	5.6	5.8	5.8	-	-	-	-	-	-	-	-	-	232
240	5.0	5.3	5.5	-	-	-	-	-	-	-	-	-	240
248	4.7	4.7	4.9	-	-	-	-	-	-	-	-	-	248

88,200 lb 132,300 lb 176,400 lb 220,500 lb 264,600 lb 308,700 lb 352,800 lb

360°													85%	
														
		27.6 ft 0°	47.2 ft 0°	66.9 ft 0°	86.6 ft			106.3 ft			126.0 ft			
ft					0°	20°	40°	0°	20°	40°	0°	20°	40°	ft
1,000 lb														
40	157.7*	-	-	-	-	-	-	-	-	-	-	-	-	40
48	142.8*	120.0*	101.0*	-	-	-	-	-	-	-	-	-	-	48
56	129.0*	108.4*	91.4*	78.4*	-	-	-	68.1*	-	-	-	-	-	56
64	116.8*	98.3*	83.2*	71.3*	54.8	-	-	62.0*	-	-	54.6*	-	-	64
72	105.8*	89.7*	76.2*	65.0*	51.0	43.9	-	56.8*	-	-	49.9*	-	-	72
80	96.3*	82.5*	70.5*	60.0*	47.8	41.5	-	52.3*	38.2	-	46.0*	34.7	-	80
88	89.6	75.9*	65.3*	55.3*	44.7	39.4	-	48.2*	35.9	30.9	42.3*	32.6	-	88
96	84.1	70.1*	60.9*	51.3*	42.0	37.5	-	44.5*	33.7	29.7	38.9*	30.6	26.6	96
104	79.1	65.3	57.1*	47.8*	39.7	35.7	-	41.5*	31.8	28.4	36.0*	28.9	25.5	104
112	74.2	61.3	53.6*	44.6*	37.4	33.9	-	38.7*	29.9	27.3	33.4*	27.0	24.2	112
120	68.6	58.0	50.5*	42.1*	35.5	32.4	-	36.2*	28.3	26.1	31.2*	25.6	23.1	120
128	62.7	54.8	47.4*	39.6*	33.7	31.0	-	34.1*	26.7	24.8	29.3*	24.1	22.0	128
144	51.2	49.3	41.5*	35.3*	30.6	28.4	-	30.5*	23.9	22.5	26.0*	21.5	20.0	144
160	42.0	42.8	37.3	31.4*	27.9	26.1	-	27.4*	21.6	20.5	23.2*	19.3	18.3	160
176	34.1	35.2	34.2	27.8*	25.5	24.2	-	24.9*	19.8	18.7	20.9*	17.5	16.7	176
184	30.6	31.7	32.8	26.2*	24.5	23.2	-	23.7*	18.9	17.8	19.8*	16.7	15.8	184
192	27.4*	28.4	31.3	24.6*	23.6	22.4	-	22.5*	18.2	17.1	18.8*	15.9	15.1	192
200	24.1	25.4	29.4	23.4	22.7	-	-	21.4*	17.6	16.5	17.9*	15.3	14.4	200
208	-	22.8	26.5	22.5	21.8	-	-	20.3*	17.1	16.1	17.0*	14.6	13.8	208
216	-	20.2	24.0	21.7	21.0	-	-	19.3*	16.6	-	16.1*	13.9	13.3	216
224	-	-	21.7	20.4	20.2	-	-	18.3*	16.2	-	15.3*	13.4	12.7	224
232	-	-	19.5	18.8	19.1	-	-	17.3*	15.8	-	14.5*	12.8	-	232
240	-	-	-	17.0	17.4	-	-	16.2*	15.4	-	13.7*	12.3	-	240
248	-	-	-	15.2	-	-	-	15.1	14.9	-	12.9*	11.8	-	248
256	-	-	-	-	-	-	-	13.9	14.5	-	12.3	11.2	-	256
264	-	-	-	-	-	-	-	12.4	-	-	11.4	10.7	-	264
272	-	-	-	-	-	-	-	11.0	-	-	10.3	10.2	-	272
280	-	-	-	-	-	-	-	-	-	-	9.0	-	-	280
288	-	-	-	-	-	-	-	-	-	-	7.7	-	-	288

	145.7 ft			165.4 ft			185.0 ft			204.7 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft	1,000 lb												ft
64	48.0*	-	-	-	-	-	-	-	-	-	-	-	64
72	44.2*	-	-	39.1*	-	-	-	-	-	-	-	-	72
80	40.7*	-	-	36.1*	-	-	32.2*	-	-	28.5*	-	-	80
88	37.4*	26.3	-	33.3*	-	-	29.7*	-	-	26.2*	-	-	88
96	34.6*	25.1	-	30.8*	23.2	-	27.4*	-	-	24.2*	-	-	96
104	32.0*	23.8	-	28.4*	21.8	-	25.3*	-	-	22.3*	-	-	104
112	29.7*	22.6	19.4	26.1*	20.4	18.0	23.3*	18.2	-	20.4*	15.4	-	112
120	27.8*	21.4	18.7	24.4*	19.2	17.1	21.7*	17.2	-	18.8*	14.6	-	120
128	26.0*	20.3	18.0	22.7*	18.1	16.2	20.1*	16.1	-	17.3*	13.8	-	128
136	24.4*	19.2	17.2	21.1*	17.0	15.3	18.6*	15.0	13.6	16.0*	13.0	12.0	136
144	23.0*	18.2	16.5	19.8*	16.0	14.6	17.4*	14.0	12.8	14.7*	12.2	11.4	144
160	20.5*	16.3	15.1	17.5*	14.1	13.1	15.1*	12.3	11.4	12.6*	10.5	9.9	160
176	18.2*	14.7	14.0	15.6*	12.7	11.8	13.3*	10.7	10.0	10.9*	8.9	8.5	176
192	16.6*	13.3	12.9	13.7*	11.3	10.7	11.8*	9.3	8.7	9.4*	7.3	7.1	192
200	15.8*	12.8	12.4	13.0*	10.6	10.2	11.1*	8.5	8.2	8.8*	6.4	6.3	200
208	15.0*	12.3	11.8	12.3*	10.1	9.7	10.4*	7.8	7.5	8.2*	5.5	5.6	208
216	14.2*	11.7	11.5	11.5*	9.5	9.3	9.7*	7.3	6.9	7.5*	4.7	4.9	216
224	13.5*	11.2	11.0	11.0*	9.0	8.8	9.1*	6.6	6.3	7.1*	-	-	224
232	12.8*	10.7	10.5	10.4*	8.4	8.5	8.4*	6.0	5.8	6.7*	-	-	232
240	12.1*	10.3	10.1	9.8*	7.9	8.1	8.0*	5.5	5.1	6.1*	-	-	240
248	11.5*	10.0	-	9.1*	7.5	7.6	7.6*	4.9	4.5	5.7*	-	-	248
256	10.8*	9.7	-	8.6*	7.0	7.3	7.0*	-	-	5.3*	-	-	256
264	10.1*	9.2	-	8.2*	6.5	-	6.5*	-	-	-	-	-	264
272	9.5*	8.9	-	7.7*	6.0	-	6.1*	-	-	-	-	-	272
280	8.9	8.6	-	7.2*	5.7	-	5.7*	-	-	-	-	-	280
288	8.1	8.3	-	6.7*	5.1	-	5.2*	-	-	-	-	-	288
296	7.2	7.9	-	6.1*	-	-	-	-	-	-	-	-	296
304	6.1	-	-	5.6*	-	-	-	-	-	-	-	-	304
312	5.0	-	-	-	-	-	-	-	-	-	-	-	312

360°													85 %	
 169.9 ft														
		27.6 ft	47.2 ft	66.9 ft	86.6 ft			106.3 ft			126.0 ft			
ft		0°	0°	0°	0°	20°	40°	0°	20°	40°	0°	20°	40°	ft
1,000 lb														
40	116.6	-	-	-	-	-	-	-	-	-	-	-	-	40
48	103.0	86.7	74.1	-	-	-	-	-	-	-	-	-	-	48
56	91.4	78.0	67.1	58.0	-	-	-	50.3	-	-	-	-	-	56
64	81.9	70.4	60.9	52.7	46.0	-	-	45.8	-	-	40.4	-	-	64
72	73.8	63.9	55.5	47.9	42.4	-	-	41.8	-	-	36.9	-	-	72
80	67.6	58.5	51.0	43.9	39.2	36.9	-	38.3	33.7	-	33.8	30.3	-	80
88	61.9	53.4	46.9	40.2	36.4	34.5	-	35.0	31.2	-	30.9	27.9	-	88
96	57.0	49.0	43.6	37.1	33.9	32.2	-	32.3	29.1	27.2	28.3	26.0	24.6	96
104	52.7	45.3	40.7	34.4	31.6	30.2	-	29.9	27.1	25.6	26.2	24.2	23.1	104
112	48.5	41.9	38.0	31.9	29.5	28.3	-	27.7	25.3	24.2	24.2	22.4	21.5	112
120	45.0	39.0	35.7	29.8	27.8	27.0	-	25.8	23.9	22.8	22.4	21.0	20.2	120
136	38.8	33.8	31.5	26.4	24.8	24.0	-	22.6	21.1	20.3	19.3	18.2	17.9	136
152	33.7	30.0	28.0	23.4	22.2	21.8	-	19.9	18.8	18.3	16.8	16.1	15.9	152
168	29.8	26.6	24.9	20.9	20.0	19.9	-	17.8	16.8	16.6	14.7	14.2	14.0	168
176	28.2	25.1	23.6	19.8	19.0	19.0	-	16.7	16.0	15.8	13.8	13.3	13.2	176
184	26.8	23.8	22.5	18.7	18.1	18.1	-	15.8	15.2	15.0	12.9	12.5	12.5	184
192	-	22.4	21.4	17.9	17.2	-	-	15.0	14.5	14.4	12.2	11.9	11.8	192
200	-	21.1	20.3	16.9	16.4	-	-	14.2	13.8	13.7	11.5	11.1	11.3	200
208	-	-	19.5	16.2	15.6	-	-	13.6	13.1	-	10.7	10.5	10.7	208
216	-	-	18.6	15.3	14.9	-	-	12.8	12.5	-	10.2	10.0	10.2	216
224	-	-	17.7	14.5	14.2	-	-	12.3	11.8	-	9.6	9.4	-	224
232	-	-	-	13.9	13.5	-	-	11.5	11.3	-	9.1	8.9	-	232
240	-	-	-	13.1	-	-	-	11.0	11.0	-	8.6	8.4	-	240
248	-	-	-	-	-	-	-	10.5	10.5	-	8.1	8.0	-	248
256	-	-	-	-	-	-	-	9.9	-	-	7.7	7.7	-	256
264	-	-	-	-	-	-	-	9.6	-	-	7.4	7.2	-	264
272	-	-	-	-	-	-	-	-	-	-	6.9	-	-	272
280	-	-	-	-	-	-	-	-	-	-	6.5	-	-	280

		145.7 ft			165.4 ft			185.0 ft			204.7 ft			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft		1,000 lb											ft	
64	36.5	-	-	-	-	-	-	-	-	-	-	-	64	
72	33.4	-	-	-	29.6	-	-	-	-	-	-	-	72	
80	30.7	-	-	-	27.2	-	-	24.4	-	-	21.3	-	80	
88	28.1	-	-	-	24.8	-	-	22.3	-	-	19.5	-	88	
96	25.8	23.2	-	-	22.7	21.0	-	20.4	-	-	17.7	-	96	
104	23.7	21.6	-	-	20.8	19.4	-	18.6	-	-	16.2	-	104	
112	21.7	20.0	18.9	-	19.1	18.0	-	16.9	15.8	-	14.7	14.0	112	
120	20.1	18.6	17.8	-	17.6	16.7	16.1	15.6	14.7	-	13.4	13.0	120	
128	18.6	17.4	16.7	-	16.2	15.4	15.0	14.3	13.7	-	12.1	11.9	128	
136	17.3	16.3	15.7	-	14.9	14.4	13.9	13.1	12.6	12.2	11.0	10.9	136	
152	15.1	14.3	13.9	-	12.7	12.3	12.2	10.9	10.7	10.5	8.9	9.0	152	
168	13.0	12.6	12.2	-	11.1	10.6	10.6	9.1	9.1	9.1	7.3	7.3	168	
176	12.2	11.8	11.5	-	10.3	9.9	9.9	8.5	8.4	8.4	6.5	6.6	176	
184	11.5	11.0	10.8	-	9.5	9.2	9.2	7.8	7.7	7.7	5.8	5.9	184	
192	10.7	10.3	10.2	-	8.7	8.6	8.5	7.2	7.0	7.2	5.2	5.4	192	
200	10.0	9.7	9.7	-	8.0	7.9	7.9	6.6	6.4	6.6	4.6	4.9	200	
208	9.4	9.2	9.2	-	7.4	7.4	7.4	6.1	5.9	6.1	-	-	208	
216	8.9	8.6	8.6	-	6.9	6.9	6.9	5.5	5.4	5.5	-	-	216	
224	8.3	8.1	8.1	-	6.3	6.3	6.3	5.2	5.0	5.0	-	-	224	
232	7.8	7.6	7.7	-	5.8	5.8	5.9	-	-	4.6	-	-	232	
240	7.2	7.1	7.2	-	5.4	5.3	5.5	-	-	-	-	-	240	
248	6.7	6.7	-	-	4.9	4.9	5.1	-	-	-	-	-	248	
256	6.4	6.4	-	-	-	-	-	-	-	-	-	-	256	
264	6.0	5.9	-	-	-	-	-	-	-	-	-	-	264	
272	5.6	5.6	-	-	-	-	-	-	-	-	-	-	272	
280	5.4	5.4	-	-	-	-	-	-	-	-	-	-	280	
288	5.1	5.1	-	-	-	-	-	-	-	-	-	-	288	
296	4.8	-	-	-	-	-	-	-	-	-	-	-	296	

360°													85%			
 169.9 ft 0° (* 30°)																
		27.6 ft 0°	47.2 ft 0°	66.9 ft 0°	86.6 ft			106.3 ft			126.0 ft					
ft					0°	20°	40°		0°	20°	40°		0°	20°	40°	ft
1,000 lb																
36	173.0*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36
40	164.8*	144.8*	125.7*	-	-	-	-	-	-	-	-	-	-	-	-	40
48	149.7*	131.3*	113.0*	94.6*	-	-	-	78.9*	-	-	-	-	-	-	-	48
56	135.7*	119.0*	102.0*	86.2*	65.1	-	-	72.4*	-	-	-	63.8*	-	-	-	56
64	123.1*	108.2*	92.2*	78.8*	60.4	-	-	66.6*	-	-	-	59.0*	-	-	-	64
72	115.2	98.5*	84.0*	72.2*	56.1	48.8	-	61.4*	45.0	-	-	54.5*	-	-	-	72
80	108.6	90.7	77.2*	66.7*	52.4	46.2	-	57.0*	42.1	-	-	50.6*	38.4	-	-	80
88	102.2	85.0	71.0	61.6*	49.0	43.7	-	52.8*	39.5	34.7	-	46.9*	35.9	31.2	-	88
96	96.0	79.5	66.6	57.1*	46.0	41.4	-	49.2*	37.1	33.3	-	43.6*	33.6	29.7	-	96
104	87.4	74.5	62.4	53.2*	43.3	39.4	-	46.0*	34.9	31.7	-	40.7*	31.6	28.4	-	104
120	70.0	65.8	55.0	46.6*	38.7	35.6	-	40.5*	30.9	28.9	-	35.6*	27.9	25.6	-	120
136	56.7	57.6	48.7	41.1*	35.0	32.5	-	36.0*	27.5	25.9	-	31.5*	24.6	23.2	-	136
152	46.6	47.7	44.0	36.5*	31.8	29.8	-	32.2*	24.5	23.4	-	28.0*	22.1	21.0	-	152
168	38.3	39.4	40.2	32.4*	28.9	27.5	-	28.8*	22.5	21.4	-	25.1*	19.8	18.9	-	168
176	34.5	35.6	38.6	30.7*	27.7	26.4	-	27.3*	21.5	20.4	-	23.8*	18.9	18.0	-	176
184	-	32.1	36.0	29.0*	26.6	-	-	25.7*	20.7	19.6	-	22.5*	18.1	17.2	-	184
192	-	28.9	32.9	28.0*	25.6	-	-	24.4*	19.9	18.8	-	21.4*	17.2	16.4	-	192
200	-	26.1	29.9	27.2*	24.5	-	-	23.1*	19.4	18.3	-	20.3*	16.4	15.6	-	200
208	-	-	27.2	25.9	23.5	-	-	21.8*	18.9	-	-	19.2*	15.7	14.8	-	208
216	-	-	24.6	24.1	22.6	-	-	20.8	18.3	-	-	18.1*	15.0	14.2	-	216
224	-	-	-	21.8	21.6	-	-	20.0	17.8	-	-	17.3*	14.4	-	-	224
232	-	-	-	19.7	-	-	-	19.3	17.3	-	-	16.3*	13.7	-	-	232
240	-	-	-	17.7	-	-	-	18.1	16.9	-	-	15.3*	13.2	-	-	240
248	-	-	-	-	-	-	-	16.5	16.4	-	-	14.6	12.5	-	-	248
256	-	-	-	-	-	-	-	14.8	-	-	-	14.1	11.9	-	-	256
264	-	-	-	-	-	-	-	-	-	-	-	12.7	11.4	-	-	264
272	-	-	-	-	-	-	-	-	-	-	-	11.4	-	-	-	272

	145.7 ft			165.4 ft			185.0 ft			204.7 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
ft				1,000 lb									ft	
56	55.9*	-	-	-	-	-	-	-	-	-	-	-	56	
64	51.7*	-	-	45.6*	-	-	-	-	-	-	-	-	64	
72	47.9*	-	-	42.8*	-	-	-	39.1*	-	-	-	-	72	
80	44.6*	-	-	40.0*	-	-	-	36.1*	-	-	32.2*	-	80	
88	41.4*	29.3	-	37.3*	27.4	-	-	33.3*	-	-	29.7*	-	88	
96	38.6*	27.8	-	34.9*	25.6	-	-	30.8*	-	-	27.4*	-	96	
104	35.9*	26.4	22.8	32.6*	24.0	-	-	28.5*	21.6	-	25.3*	-	104	
112	33.4*	25.1	21.8	30.3*	22.4	20.0	-	26.3*	20.2	-	23.3*	16.9	112	
120	31.4*	23.7	20.8	28.3*	21.1	18.9	-	24.5*	18.9	-	21.5*	16.0	120	
128	29.4*	22.4	19.9	26.3*	19.8	17.9	-	22.7*	17.6	16.0	19.9*	15.0	128	
136	27.5*	21.0	19.1	24.5*	18.6	16.9	-	21.1*	16.6	15.0	18.4*	14.1	13.4	136
144	26.0*	19.9	18.3	22.9*	17.4	16.0	-	19.7*	15.5	14.1	17.0*	13.3	12.6	144
160	23.0*	17.9	16.7	19.9*	15.2	14.3	-	17.3*	13.5	12.5	14.8*	11.5	11.0	160
176	20.5*	16.0	15.3	17.4*	13.6	12.9	-	15.3*	11.6	10.9	12.9*	9.8	9.4	176
192	18.3*	14.4	14.2	15.5*	12.0	11.6	-	13.7*	10.2	9.6	11.3*	8.2	7.8	192
200	17.4*	13.9	13.5	14.5*	11.3	11.0	-	12.9*	9.4	8.9	10.5*	7.4	7.0	200
208	16.4*	13.3	12.9	13.7*	10.7	10.5	-	12.2*	8.7	8.2	9.8*	6.6	6.2	208
216	15.5*	12.6	12.4	13.1*	10.2	10.0	-	11.5*	8.0	7.5	9.1*	5.8	5.3	216
224	14.7*	12.2	11.8	12.3*	9.6	9.4	-	10.7*	7.4	7.0	8.5*	5.0	-	224
232	13.9*	11.7	11.3	11.7*	9.1	9.0	-	10.2*	6.9	6.5	8.0*	-	-	232
240	13.2*	11.2	-	11.0*	8.7	8.6	-	9.7*	6.2	5.8	7.5*	-	-	240
248	12.5*	10.8	-	10.5*	8.2	8.2	-	9.1*	5.6	5.2	6.9*	-	-	248
256	11.7*	10.4	-	9.9*	7.9	-	-	8.6*	5.1	-	6.4*	-	-	256
264	11.0*	10.0	-	9.4*	7.4	-	-	8.1*	4.5	-	6.0*	-	-	264
272	10.4*	9.6	-	8.8*	6.9	-	-	7.5*	-	-	5.5*	-	-	272
280	10.1*	9.1	-	8.3*	6.5	-	-	7.0*	-	-	5.1*	-	-	280
288	9.2*	-	-	7.8*	6.0	-	-	6.6*	-	-	4.7*	-	-	288
296	8.3*	-	-	7.2*	5.5	-	-	6.1*	-	-	-	-	-	296
304	-	-	-	6.6*	-	-	-	5.6*	-	-	-	-	-	304
312	-	-	-	5.8*	-	-	-	5.1*	-	-	-	-	-	312
320	-	-	-	-	-	-	-	4.7*	-	-	-	-	-	320

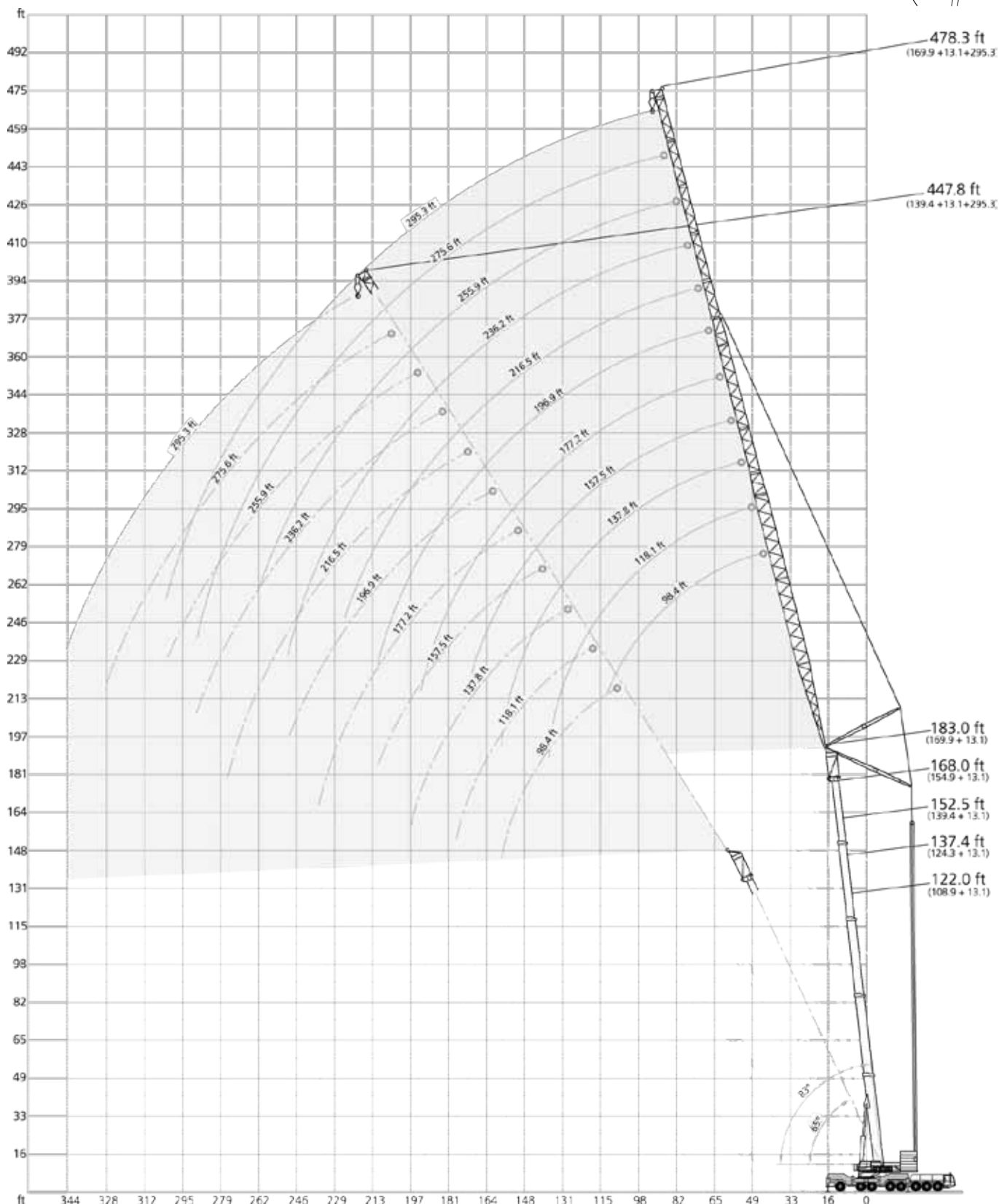
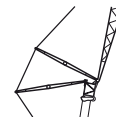
360°													85 %	
 139.4 ft														
		27.6 ft	47.2 ft	66.9 ft	86.6 ft			106.3 ft			126.0 ft			
ft	0°	0°	0°	0°	20°	40°	0°	20°	40°	0°	20°	40°	ft	
1,000 lb														
36	162.8	-	-	-	-	-	-	-	-	-	-	-	36	
40	150.7	136.3	107.0	-	-	-	-	-	-	-	-	-	40	
48	130.7	118.3	98.9	94.4	-	-	-	-	-	-	-	-	48	
56	114.7	103.7	91.3	84.6	69.8	-	74.1	-	-	64.9	-	-	56	
64	101.7	91.6	83.7	76.1	66.0	-	68.6	-	-	60.4	-	-	64	
72	91.3	81.8	76.7	68.7	62.3	54.7	63.2	47.9	-	56.1	-	-	72	
80	83.2	74.3	70.2	62.7	58.5	52.4	58.3	45.2	39.2	52.2	43.4	-	80	
88	75.7	67.5	64.0	57.1	54.6	50.0	53.6	42.8	37.7	48.4	40.9	37.5	88	
96	69.4	61.9	58.4	52.4	51.0	47.5	49.2	40.3	36.2	44.8	38.4	35.8	96	
104	63.8	56.9	53.6	48.3	47.4	45.1	45.2	38.2	34.8	41.5	36.4	34.2	104	
120	54.5	48.4	45.6	41.3	41.0	40.2	38.3	34.2	31.9	35.6	32.5	31.1	120	
136	46.9	41.7	39.6	35.7	35.6	35.5	32.8	30.5	29.2	30.7	29.3	28.5	136	
144	43.6	39.1	37.4	33.3	33.2	33.4	30.5	28.7	27.8	28.6	27.8	27.2	144	
152	40.3	36.7	35.2	31.1	31.1	31.4	28.4	27.1	26.5	26.6	26.2	26.0	152	
160	-	34.6	33.4	29.2	29.2	29.4	26.7	25.5	25.2	24.8	24.7	24.7	160	
168	-	32.6	31.7	27.5	27.3	-	25.1	24.1	24.0	23.3	23.4	23.4	168	
176	-	30.9	30.2	26.0	25.6	-	23.8	22.7	22.8	21.8	21.9	22.0	176	
184	-	-	28.6	24.5	24.0	-	22.7	21.3	-	20.5	20.5	20.7	184	
192	-	-	27.0	23.1	22.4	-	21.6	20.3	-	19.2	19.3	19.2	192	
200	-	-	-	22.1	20.7	-	20.5	19.2	-	18.1	18.0	17.9	200	
208	-	-	-	21.0	-	-	19.4	18.3	-	17.1	16.8	-	208	
216	-	-	-	-	-	-	18.6	17.5	-	16.2	15.7	-	216	
224	-	-	-	-	-	-	17.5	-	-	15.3	14.7	-	224	
232	-	-	-	-	-	-	16.4	-	-	14.5	13.9	-	232	
240	-	-	-	-	-	-	-	-	-	13.5	-	-	240	
248	-	-	-	-	-	-	-	-	-	12.8	-	-	248	

		145.7 ft			165.4 ft			185.0 ft			204.7 ft			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft				1,000 lb									ft	
56	57.4	-	-	-	-	-	-	-	-	-	-	-	56	
64	53.1	-	-	45.6	-	-	-	-	-	-	-	-	64	
72	49.0	-	-	42.0	-	-	-	37.1	-	-	-	-	72	
80	45.5	-	-	38.7	-	-	-	34.3	-	-	-	-	80	
88	42.2	33.3	-	35.7	30.7	-	-	31.6	-	-	-	-	88	
96	39.1	31.8	-	33.0	28.9	-	-	29.2	24.1	-	-	-	96	
104	36.4	30.4	26.3	30.8	27.5	-	-	27.0	22.9	-	-	-	104	
112	33.8	29.2	26.0	28.8	25.9	24.6	-	25.0	21.8	-	-	-	112	
120	31.5	28.0	25.4	26.9	24.6	23.3	-	23.4	20.7	-	-	-	120	
128	29.4	26.8	24.9	25.2	23.4	22.0	-	21.9	19.7	19.0	-	-	128	
136	27.5	25.6	24.2	23.9	22.2	21.0	-	20.4	18.8	18.0	-	-	136	
144	25.8	24.5	23.4	22.5	21.0	19.9	-	19.1	17.9	17.0	-	-	144	
152	24.1	23.4	22.5	21.2	20.0	18.8	-	17.9	17.0	16.2	-	-	152	
160	22.6	22.3	21.6	20.2	19.1	17.8	-	16.9	16.1	15.4	-	-	160	
168	21.2	21.1	20.6	19.1	18.2	16.9	-	15.8	15.3	14.6	-	-	168	
176	19.8	20.0	19.6	18.0	17.1	16.0	-	14.9	14.4	13.9	-	-	176	
184	18.7	18.9	18.7	16.9	16.1	15.2	-	14.0	13.6	13.2	-	-	184	
192	17.6	17.8	17.6	15.9	15.3	14.5	-	13.1	13.0	12.4	-	-	192	
200	16.6	16.8	16.6	14.9	14.3	13.7	-	12.3	12.2	11.7	-	-	200	
208	15.5	15.7	15.7	13.9	13.4	13.0	-	11.5	11.4	11.0	-	-	208	
216	14.4	14.6	14.8	13.0	12.6	12.2	-	10.8	10.6	10.4	-	-	216	
224	13.6	13.6	-	12.1	11.8	11.6	-	10.1	9.8	9.8	-	-	224	
232	12.7	12.6	-	11.1	10.9	10.9	-	9.3	9.2	9.1	-	-	232	
240	11.8	11.6	-	10.2	10.1	-	-	8.6	8.3	8.6	-	-	240	
248	11.0	10.9	-	9.3	9.4	-	-	7.8	7.8	8.0	-	-	248	
256	10.1	10.1	-	8.6	8.7	-	-	7.0	7.1	-	-	-	256	
264	9.3	-	-	7.6	7.8	-	-	6.2	6.5	-	-	-	264	
272	8.6	-	-	6.7	7.3	-	-	5.5	6.0	-	-	-	272	
280	-	-	-	5.8	-	-	-	4.7	-	-	-	-	280	
288	-	-	-	4.9	-	-	-	-	-	-	-	-	288	

WIHI / WIHI-SSL

HA 83°-65°

AC 500-8



360°																		85%
 48.2 ft +  13.1 ft																		
 	78.7 ft			98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft	1,000 lb																	
48	251.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56	223.9	-	-	210.8	-	-	186.7	-	-	151.5	-	-	-	-	-	-	-	-
64	197.1	-	-	194.5	-	-	182.7	-	-	151.5	-	-	119.9	-	-	-	-	-
72	174.2	167.6	-	173.3	166.3	-	171.4	-	-	151.5	-	-	119.9	-	-	108.0	-	-
80	151.1	150.2	-	155.2	149.1	-	153.5	147.1	-	147.8	-	-	119.8	-	-	108.0	-	-
88	-	135.9	131.6	140.4	134.8	-	138.8	132.8	-	137.0	-	-	117.6	-	-	108.0	-	-
96	-	-	120.1	123.2	122.7	118.8	126.3	120.8	-	124.5	119.1	-	111.9	-	-	107.3	-	-
104	-	-	-	-	112.5	108.8	115.7	110.5	106.8	113.9	108.8	-	106.3	109.6	-	105.4	-	-
112	-	-	-	-	-	100.3	98.9	101.9	98.3	104.9	100.1	-	100.6	101.2	-	103.1	99.6	-
120	-	-	-	-	-	-	75.9	94.5	91.1	96.5	92.6	89.2	94.7	93.8	-	96.8	92.1	-
128	-	-	-	-	-	-	-	87.9	84.7	84.7	86.1	82.9	88.5	87.2	83.9	89.9	85.6	-
136	-	-	-	-	-	-	-	-	79.0	69.4	80.2	77.1	82.3	81.3	78.1	83.8	79.8	-
144	-	-	-	-	-	-	-	-	-	-	75.0	72.1	75.1	76.1	73.2	78.3	74.5	71.4
152	-	-	-	-	-	-	-	-	-	-	-	67.5	63.8	71.2	68.6	73.2	69.7	66.9
160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	66.6	64.2	65.7	62.9
168	-	-	-	-	-	-	-	-	-	-	-	-	-	61.8	60.3	56.3	61.5	59.1
176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56.7	46.8	57.8	55.4
184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54.6	52.3
192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49.5

		196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
		83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft								1,000 lb											
72	92.6	-	-		-	-		-	-		-	-		-	-		-	-	
80	92.6	-	-		74.0	-	-	62.8	-	-	-	-	-	-	-	-	-	-	-
88	92.6	-	-		73.5	-	-	62.5	-	-	52.2	-	-	-	-	-	-	-	-
96	92.6	-	-		72.8	-	-	62.1	-	-	51.5	-	-	41.4	-	-	-	-	-
104	92.2	-	-		72.2	-	-	61.8	-	-	51.0	-	-	40.7	-	-	33.6	-	-
112	90.7	-	-		71.6	-	-	61.5	-	-	50.4	-	-	39.9	-	-	33.0	-	-
120	89.2	84.9			70.7	-	-	61.2	-	-	49.7	-	-	39.1	-	-	32.2	-	-
128	87.5	83.5	-		69.8	68.1		60.5	-	-	49.0	-	-	38.5	-	-	31.5	-	-
136	83.1	78.9	-		69.0	67.6	-	59.8	61.4		48.2	-	-	37.7	-	-	30.8	-	-
144	77.6	73.6	-		68.2	67.3	-	59.1	60.7	-	47.4	49.2		36.9	-	-	30.0	-	-
152	72.8	69.1	66.3		67.0	66.4		58.3	59.9	-	46.4	48.4	-	36.0	37.8	-	29.4	-	-
160	68.3	64.9	62.2		65.0	63.1	60.3	57.7	59.1	-	45.5	47.6	-	35.2	36.9	-	28.7	-	-
168	63.4	61.0	58.4		62.2	59.3	56.7	56.8	57.3	-	44.5	46.7	-	34.2	35.8	-	27.9	29.1	-
176	57.9	57.2	54.8		58.7	55.6	53.2	55.7	54.1	51.4	43.6	45.8	-	33.4	34.8	-	27.2	28.3	-
184	50.8	54.0	51.7		54.8	52.5	50.2	53.5	50.9	48.5	42.6	45.0	45.5	32.6	33.7	-	26.5	27.6	-
192	43.2	51.0	48.8		50.3	49.4	47.3	50.9	47.9	45.7	41.7	44.1	44.2	31.9	32.6	-	25.9	26.9	-
200	-	48.2	46.1	44.4	46.6	44.6		47.7	45.2	43.0	40.6	43.3	42.4	31.0	31.7	32.7	25.2	26.1	-
208	-	-	43.7	38.0	44.1	42.1		43.4	42.7	40.6	39.5	41.9	40.4	30.2	30.9	31.9	24.6	25.4	26.5
216	-	-	41.6	31.3	41.8	39.8		38.5	40.3	38.3	38.4	40.0	38.1	29.4	30.2	31.1	24.1	24.7	25.8
224	-	-	-	-	-	39.0	37.8	33.2	38.2	36.4	36.7	38.0	36.0	28.7	29.6	30.3	23.5	24.2	25.2
232	-	-	-	-	-	-	-	27.2	36.3	34.4	34.3	36.0	34.1	28.0	28.9	29.6	23.0	23.7	24.5
240	-	-	-	-	-	-	-	-	34.6	32.7	30.3	34.2	32.4	27.4	28.2	28.9	22.3	23.1	24.0
248	-	-	-	-	-	-	-	-	-	31.1	25.5	32.5	30.7	26.8	27.6	28.2	21.7	22.5	23.4
256	-	-	-	-	-	-	-	-	-	-	-	30.8	29.1	26.2	27.1	27.5	21.2	21.8	22.7
264	-	-	-	-	-	-	-	-	-	-	-	27.2	27.7	23.0	26.7	26.9	20.8	21.4	22.2
272	-	-	-	-	-	-	-	-	-	-	-	-	-	18.5	26.3	25.9	20.3	21.0	21.7
280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.2	24.6	19.8	20.6	21.3
288	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.3	17.0	20.4	20.9
296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.0	20.5
304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.1

 132,300lb 176,400lb 220,500lb 264,600lb 308,700lb 352,800lb 396,800lb

360°																		85%	
 63.3 ft +  13.1 ft																			
		78.7 ft			98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft		
		83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft				1,000 lb															
48	239.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56	219.9	-	-	-	198.9	-	-	171.9	-	-	139.6	-	-	-	-	-	-	-	-
64	195.2	-	-	-	187.3	-	-	170.3	-	-	139.6	-	-	114.6	-	-	-	-	-
72	172.4	-	-	-	171.2	-	-	167.4	-	-	139.6	-	-	114.6	-	-	102.1	-	-
80	154.5	146.7	-	-	153.6	145.4	-	151.9	-	-	138.7	-	-	114.6	-	-	101.5	-	-
88	-	132.6	-	-	138.9	131.5	-	137.2	129.6	-	132.6	-	-	113.7	-	-	101.0	-	-
96	-	121.0	115.8	-	126.5	119.7	-	124.8	117.8	-	123.1	115.9	-	110.2	-	-	100.5	-	-
104	-	-	106.3	103.9	109.7	105.0	114.3	107.9	-	112.6	105.9	-	106.1	107.2	-	-	99.7	-	-
112	-	-	-	-	101.2	96.6	104.9	99.2	94.6	103.6	97.5	-	102.0	98.6	-	-	99.1	97.0	-
120	-	-	-	-	-	-	89.7	86.1	91.9	87.5	95.9	90.1	-	96.8	91.2	-	95.7	89.7	-
128	-	-	-	-	-	-	-	-	85.5	81.4	88.8	83.6	79.4	90.4	84.8	-	88.8	83.2	-
136	-	-	-	-	-	-	-	-	79.9	75.9	76.7	77.9	74.0	84.2	79.0	75.1	82.8	77.5	-
144	-	-	-	-	-	-	-	-	-	71.2	58.0	72.8	69.2	78.3	73.9	70.1	77.4	72.3	-
152	-	-	-	-	-	-	-	-	-	-	-	68.4	64.7	70.0	69.3	65.8	72.5	67.8	64.0
160	-	-	-	-	-	-	-	-	-	-	-	-	60.7	56.4	64.8	61.6	67.9	63.5	60.1
168	-	-	-	-	-	-	-	-	-	-	-	-	-	61.0	57.8	61.0	59.7	56.5	-
176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54.5	51.4	56.1	53.0	-
184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52.9	50.1	-
192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49.9	47.3	-
200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44.7	-

		196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
		83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft								1,000 lb											
80	86.4	-	-	68.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
88	86.0	-	-	68.4	-	-	60.8	-	-	-	-	-	-	-	-	-	-	-	-
96	85.6	-	-	67.8	-	-	60.5	-	-	47.8	-	-	39.2	-	-	-	-	-	-
104	85.4	-	-	67.3	-	-	60.2	-	-	47.7	-	-	38.6	-	-	31.8	-	-	-
112	84.6	-	-	66.5	-	-	59.9	-	-	47.4	-	-	38.1	-	-	31.3	-	-	-
120	83.9	-	-	66.1	-	-	59.5	-	-	47.3	-	-	37.5	-	-	30.7	-	-	-
128	83.0	80.0	-	65.7	65.7	-	59.1	-	-	47.1	-	-	36.8	-	-	30.1	-	-	-
136	81.4	76.7	-	65.2	65.0	-	58.5	-	-	46.6	-	-	36.3	-	-	29.4	-	-	-
144	76.7	71.6	-	64.6	64.2	-	57.8	59.6	-	45.9	-	-	35.7	-	-	28.9	-	-	-
152	71.9	67.1	-	64.0	63.5	-	57.2	59.0	-	45.3	46.8	-	34.9	-	-	28.3	-	-	-
160	67.4	62.9	59.4	63.1	61.1	-	56.7	58.1	-	44.6	46.1	-	34.1	35.5	-	27.6	-	-	-
168	63.3	59.1	55.9	61.4	57.5	54.0	56.1	55.7	-	44.0	45.6	-	33.4	34.7	-	27.1	28.1	-	-
176	59.4	55.4	52.5	58.0	54.1	50.7	55.4	52.3	-	43.3	45.1	-	32.7	34.0	-	26.5	27.4	-	-
184	53.7	52.3	49.5	54.7	50.8	47.9	53.2	49.2	46.0	42.4	44.5	-	32.1	33.4	-	26.0	26.9	-	-
192	47.0	49.3	46.6	51.1	47.7	45.1	50.1	46.4	43.3	41.5	43.9	42.7	31.4	32.7	-	25.4	26.3	-	-
200	38.1	46.8	43.9	47.0	45.2	42.5	47.3	43.7	40.8	40.5	42.8	40.3	30.7	32.0	-	24.8	25.6	-	-
208	-	44.3	41.8	41.4	42.8	40.1	44.3	41.2	38.5	39.5	41.0	38.0	30.0	31.1	32.4	24.2	25.0	-	-
216	-	-	39.6	34.8	40.5	37.9	41.2	39.0	36.3	38.4	38.7	35.9	29.4	30.5	31.6	23.6	24.3	25.4	-
224	-	-	-	-	38.4	36.0	36.1	36.9	34.4	37.2	36.7	34.0	28.7	29.8	30.8	23.1	23.9	24.7	-
232	-	-	-	-	-	34.1	30.4	35.0	32.6	35.5	34.7	32.1	28.0	29.1	30.0	22.6	23.4	24.1	-
240	-	-	-	-	-	32.5	-	33.3	30.9	32.6	32.8	30.4	27.4	28.5	29.3	22.0	22.9	23.6	-
248	-	-	-	-	-	-	-	31.3	29.2	28.3	31.2	28.7	26.9	27.9	28.2	21.5	22.4	23.0	-
256	-	-	-	-	-	-	-	-	-	-	29.7	27.1	26.4	27.3	26.9	20.9	22.0	22.5	-
264	-	-	-	-	-	-	-	-	-	-	28.3	25.8	24.6	26.8	25.4	20.5	21.5	22.1	-
272	-	-	-	-	-	-	-	-	-	-	-	24.4	21.4	26.2	24.1	20.1	21.1	21.7	-
280	-	-	-	-	-	-	-	-	-	-	-	23.1	-	25.1	22.8	19.7	20.8	21.3	-
288	-	-	-	-	-	-	-	-	-	-	-	-	-	23.9	21.5	18.0	20.5	20.5	-
296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.3	19.5	-
304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.0	18.6	-
312	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.7	-

132,300lb 176,400lb 220,500lb 264,600lb 308,700lb 352,800lb 396,800lb

360°																		85%	
 78.7 ft +  13.1 ft																			
		78.7 ft			98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft		
		83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft								1,000 lb											
56	210.3	-	-	-	187.5	-	-	-	159.0	-	-	-	-	-	-	-	-	-	-
64	192.1	-	-	-	176.8	-	-	-	157.1	-	-	130.7	-	-	-	-	-	-	-
72	170.9	-	-	-	166.2	-	-	-	155.2	-	-	130.7	-	-	109.8	-	-	96.8	-
80	153.2	143.7	-	-	152.2	-	-	-	148.2	-	-	130.5	-	-	109.8	-	-	96.2	-
88	-	129.9	-	-	137.5	128.7	-	-	135.8	-	-	127.7	-	-	109.7	-	-	95.5	-
96	-	118.3	-	-	125.3	117.0	-	-	123.6	115.3	-	120.9	-	-	108.0	-	-	94.8	-
104	-	-	-	102.8	114.4	107.2	-	-	113.2	105.3	-	111.5	103.5	-	104.9	-	-	94.2	-
112	-	-	-	-	-	98.8	93.5	-	104.3	97.0	-	102.5	95.0	-	101.8	96.4	-	93.7	-
120	-	-	-	-	-	-	86.5	-	93.1	89.7	84.5	94.9	87.9	-	96.2	89.1	-	92.3	86.5
128	-	-	-	-	-	-	80.5	-	-	83.3	78.6	88.1	81.5	76.5	89.5	82.7	-	87.9	81.1
136	-	-	-	-	-	-	-	-	-	77.9	73.2	80.7	75.9	71.3	83.5	77.0	-	82.0	75.5
144	-	-	-	-	-	-	-	-	-	-	68.5	65.2	71.0	66.6	78.1	72.1	67.7	76.5	70.3
152	-	-	-	-	-	-	-	-	-	-	-	-	66.4	62.3	72.4	67.5	63.4	71.7	66.0
160	-	-	-	-	-	-	-	-	-	-	-	-	-	58.3	61.7	63.3	59.4	67.2	62.0
168	-	-	-	-	-	-	-	-	-	-	-	-	-	54.7	-	59.5	55.7	61.7	58.2
176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55.9	52.3	55.0	54.5	51.0
184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49.4	-	51.5	48.0
192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48.6	45.3
200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42.8
208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40.7

	196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft	1,000 lb																	
80	81.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
88	81.2	-	-	63.8	-	-	57.1	-	-	-	-	-	-	-	-	-	-	-
96	80.6	-	-	63.4	-	-	56.7	-	-	46.3	-	-	-	-	-	-	-	-
104	80.1	-	-	62.9	-	-	56.5	-	-	46.1	-	-	36.2	-	-	-	-	-
112	79.6	-	-	62.4	-	-	56.2	-	-	45.8	-	-	35.9	-	-	30.6	-	-
120	79.0	-	-	61.8	-	-	55.9	-	-	45.6	-	-	35.7	-	-	30.1	-	-
128	78.5	76.7	-	61.4	-	-	55.6	-	-	45.4	-	-	35.4	-	-	29.5	-	-
136	77.9	74.1	-	61.0	-	-	55.2	-	-	45.3	-	-	35.1	-	-	29.0	-	-
144	75.7	69.7	-	60.4	60.9	-	54.9	-	-	44.8	-	-	34.6	-	-	28.3	-	-
152	71.1	65.2	-	59.9	60.3	-	54.4	52.4	-	44.2	-	-	34.1	-	-	27.7	-	-
160	66.8	61.2	-	59.5	59.0	-	54.1	52.1	-	43.7	44.0	-	33.5	-	-	27.2	-	-
168	62.7	57.6	53.5	58.4	55.9	-	53.8	51.3	-	43.2	43.7	-	32.8	34.1	-	26.6	-	-
176	58.8	54.1	50.3	57.1	52.5	-	53.4	50.2	-	42.8	43.3	-	32.3	33.6	-	26.1	27.2	-
184	55.4	50.9	47.4	54.1	49.4	45.6	52.0	47.6	-	42.2	43.0	-	31.6	33.1	-	25.4	26.7	-
192	51.0	48.0	44.7	51.0	46.4	42.9	49.5	44.9	41.1	41.5	42.6	-	31.0	32.5	-	24.8	26.1	-
200	42.1	45.4	42.3	48.2	43.9	40.5	46.8	42.3	38.7	40.6	41.9	-	30.4	31.8	-	24.3	25.4	-
208	-	43.1	40.0	43.6	41.5	38.2	44.2	39.9	36.5	39.6	39.7	36.0	29.7	31.2	-	23.7	24.8	-
216	-	40.9	37.8	37.7	39.2	36.1	41.8	37.6	34.3	38.6	37.4	33.9	29.1	30.7	31.8	23.2	24.3	-
224	-	-	36.1	-	37.3	34.2	38.4	35.7	32.4	37.7	35.4	32.1	28.6	30.0	31.0	22.9	23.7	24.9
232	-	-	-	-	-	32.6	34.0	33.9	30.6	36.4	33.4	30.4	28.0	29.4	29.9	22.4	23.3	24.3
240	-	-	-	-	-	30.8	-	32.1	29.0	34.4	31.7	28.6	27.4	28.8	28.2	22.0	22.8	23.8
248	-	-	-	-	-	-	-	30.5	27.4	30.6	30.0	26.9	26.9	28.2	26.6	21.5	22.4	23.2
256	-	-	-	-	-	-	-	-	25.8	-	28.4	25.3	26.4	27.5	25.1	20.9	22.0	22.7
264	-	-	-	-	-	-	-	-	24.6	-	26.9	24.0	25.8	26.5	23.8	20.5	21.6	22.3
272	-	-	-	-	-	-	-	-	-	-	-	22.7	23.5	25.3	22.5	20.2	21.2	21.5
280	-	-	-	-	-	-	-	-	-	-	-	21.5	-	24.0	21.2	19.9	20.8	20.2
288	-	-	-	-	-	-	-	-	-	-	-	-	22.8	19.9	18.9	20.5	19.1	-
296	-	-	-	-	-	-	-	-	-	-	-	-	-	18.9	-	20.2	18.0	-
304	-	-	-	-	-	-	-	-	-	-	-	-	-	17.9	-	19.5	17.1	-
312	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.1	-
320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.2	-

132,300 lb 176,400 lb 220,500 lb 264,600 lb 308,700 lb 352,800 lb 396,800 lb

360°																		85%
 93.8 ft +  13.1 ft																		
 	78.7 ft			98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft							1,000 lb											
56	183.1	-	-	162.9	-	-	140.4	-	-	-	-	-	-	-	-	-	-	-
64	170.8	-	-	155.6	-	-	137.7	-	-	115.7	-	-	-	-	-	-	-	-
72	159.2	-	-	147.9	-	-	134.8	-	-	114.9	-	-	98.1	-	-	-	-	-
80	149.7	-	-	140.1	-	-	130.9	-	-	114.0	-	-	97.8	-	-	-	85.9	-
88	-	120.9	-	132.9	-	-	125.1	-	-	112.0	-	-	97.6	-	-	-	85.3	-
96	-	111.8	-	124.4	109.5	-	119.5	103.8	-	108.1	-	-	96.7	-	-	-	84.5	-
104	-	104.7	-	114.1	101.5	-	112.1	97.4	-	104.3	-	-	95.0	-	-	-	83.8	-
112	-	-	89.4	-	95.6	88.3	103.4	91.2	-	100.2	89.0	-	92.9	-	-	-	83.1	-
120	-	-	-	-	89.8	82.1	94.7	86.1	-	94.0	83.6	-	91.0	83.6	-	-	82.5	-
128	-	-	-	-	-	76.9	-	81.5	73.5	87.4	78.6	-	87.9	79.2	-	-	81.8	75.5
136	-	-	-	-	-	72.9	-	76.3	69.2	81.5	74.4	67.9	82.7	74.8	-	-	80.3	71.8
144	-	-	-	-	-	-	-	71.4	65.6	70.7	69.4	63.9	77.4	70.5	-	-	75.8	68.1
152	-	-	-	-	-	-	-	-	62.3	-	65.1	60.1	72.4	66.2	61.4	-	71.0	64.3
160	-	-	-	-	-	-	-	-	-	-	61.0	56.4	65.4	62.0	57.7	-	66.5	60.5
168	-	-	-	-	-	-	-	-	-	-	-	53.1	-	58.2	54.1	-	62.5	56.9
176	-	-	-	-	-	-	-	-	-	-	-	49.9	-	54.7	50.8	-	58.7	53.4
184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47.7	-	-	50.2
192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45.1	-	-	47.5
200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45.0
208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39.2
216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37.2

 	196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft							1,000 lb											
80	75.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
88	74.6	-	-	58.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	74.0	-	-	58.3	-	-	51.5	-	-	41.7	-	-	-	-	-	-	-	-
104	73.3	-	-	58.0	-	-	51.2	-	-	41.7	-	-	34.2	-	-	-	-	-
112	72.7	-	-	57.7	-	-	50.9	-	-	41.4	-	-	33.9	-	-	27.8	-	-
120	72.0	-	-	57.4	-	-	50.6	-	-	41.4	-	-	33.6	-	-	27.5	-	-
128	71.3	-	-	57.0	-	-	50.3	-	-	41.3	-	-	33.2	-	-	27.2	-	-
136	70.7	67.2	-	56.7	-	-	49.9	-	-	41.2	-	-	32.9	-	-	27.0	-	-
144	69.9	64.5	-	56.5	54.1	-	49.6	-	-	41.0	-	-	32.6	-	-	26.7	-	-
152	68.9	62.0	-	56.2	53.0	-	49.3	49.0	-	40.7	-	-	32.2	-	-	26.4	-	-
160	66.1	59.3	-	55.9	51.8	-	49.1	47.9	-	40.4	-	-	31.9	-	-	26.1	-	-
168	61.9	56.3	-	55.6	50.6	-	48.7	46.8	-	40.1	40.4	-	31.5	-	-	25.6	-	-
176	58.3	52.8	48.5	55.4	49.5	-	48.3	45.6	-	39.7	40.2	-	31.1	32.0	-	25.2	-	-
184	55.0	49.7	45.8	53.5	48.2	43.8	48.2	44.5	-	39.5	39.8	-	30.9	31.7	-	24.8	25.9	-
192	51.1	46.9	43.1	50.4	45.3	41.4	47.8	43.2	-	39.1	39.4	-	30.6	31.5	-	24.4	25.5	-
200	44.5	44.3	40.7	47.7	42.8	39.0	46.2	41.2	37.0	38.6	39.1	-	30.2	31.2	-	24.0	24.9	-
208	-	42.0	38.5	44.5	40.4	36.8	43.8	38.9	34.8	38.1	38.5	34.5	29.7	30.9	-	23.6	24.4	-
216	-	39.8	36.5	41.0	38.3	34.7	41.4	36.7	32.8	37.5	36.3	32.3	29.1	30.5	-	23.2	23.8	-
224	-	-	34.6	-	36.2	32.6	39.2	34.7	30.9	37.0	34.4	30.4	28.4	30.1	30.1	22.8	23.4	-
232	-	-	-	-	34.4	30.8	35.9	32.8	29.1	36.2	32.5	28.6	27.8	29.6	28.4	22.3	23.0	-
240	-	-	-	-	32.7	29.2	29.7	31.0	27.5	34.9	30.6	27.0	27.3	28.9	26.6	22.0	22.6	24.0
248	-	-	-	-	-	27.7	-	29.5	25.9	31.7	28.9	25.5	26.9	28.0	25.1	21.6	22.2	23.4
256	-	-	-	-	-	-	-	24.5	-	-	27.3	24.0	26.5	27.1	23.6	21.2	21.8	22.7
264	-	-	-	-	-	-	-	23.1	-	-	26.0	22.7	26.0	25.8	22.2	20.8	21.6	21.3
272	-	-	-	-	-	-	-	-	-	-	24.6	21.4	24.3	24.4	20.9	20.4	21.2	20.1
280	-	-	-	-	-	-	-	-	-	-	23.3	20.2	20.3	23.1	19.7	20.0	20.8	18.8
288	-	-	-	-	-	-	-	-	-	-	-	19.1	-	21.8	18.6	19.5	20.4	17.7
296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.6	-	20.0	16.7
304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.6	-	18.9	15.7
312	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.9	14.8
320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.9	14.0
328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.2

 132,300 lb
  176,400 lb
  220,500 lb
  264,600 lb
  308,700 lb
  352,800 lb
  396,800 lb

360°																		85%	
 108.9 ft +  13.1 ft																			
		78.7 ft			98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft		
		83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft		1,000 lb																	
56	165.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
64	153.5	-	-	-	139.8	-	-	125.8	-	-	-	-	-	-	-	-	-	-	-
72	142.0	-	-	-	132.4	-	-	121.1	-	-	103.9	-	-	-	-	-	-	-	-
80	133.5	-	-	-	125.2	-	-	116.2	-	-	102.0	-	-	89.4	-	-	76.8	-	-
88	126.8	-	-	-	118.6	-	-	110.8	-	-	99.8	-	-	88.6	-	-	75.8	-	-
96	-	99.8	-	-	113.2	96.6	-	105.2	-	-	96.6	-	-	87.6	-	-	75.0	-	-
104	-	92.9	-	-	108.4	89.9	-	100.3	85.8	-	92.7	-	-	86.0	-	-	74.0	-	-
112	-	-	-	-	-	84.0	-	97.0	80.8	-	88.9	76.9	-	84.1	-	-	72.9	-	-
120	-	-	-	72.9	-	79.5	-	93.4	75.9	-	85.7	72.8	-	82.3	-	-	71.6	-	-
128	-	-	-	-	-	75.8	66.9	81.0	72.1	-	82.8	68.5	-	80.3	69.1	-	70.3	-	-
136	-	-	-	-	-	-	62.8	-	68.7	60.5	80.0	64.7	-	78.1	65.4	-	69.1	62.8	-
144	-	-	-	-	-	-	59.9	-	66.0	57.0	75.6	61.8	-	75.7	61.9	-	67.7	59.9	-
152	-	-	-	-	-	-	-	-	54.3	-	-	58.9	52.3	71.9	59.0	-	66.4	56.7	-
160	-	-	-	-	-	-	-	-	51.8	-	-	56.8	49.5	66.8	56.8	49.6	64.7	53.8	-
168	-	-	-	-	-	-	-	-	-	-	-	55.6	47.1	54.6	54.4	47.0	62.1	51.6	45.4
176	-	-	-	-	-	-	-	-	-	-	-	45.0	-	-	52.3	44.8	58.3	49.7	43.1
184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50.2	42.8	48.7	47.7	41.0
192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41.0	-	45.7	39.1
200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40.1	-	43.8	37.3
208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41.8	35.8
216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34.9

		196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
		83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft		1,000 lb																	
88	68.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	67.3	-	-	-	53.7	-	-	45.5	-	-	-	-	-	-	-	-	-	-	-
104	66.5	-	-	-	53.4	-	-	45.2	-	-	38.2	-	-	-	-	-	-	-	-
112	65.7	-	-	-	53.1	-	-	45.0	-	-	38.1	-	-	30.9	-	-	24.7	-	-
120	64.8	-	-	-	52.8	-	-	44.9	-	-	37.9	-	-	30.8	-	-	24.5	-	-
128	64.2	-	-	-	52.5	-	-	44.6	-	-	37.8	-	-	30.6	-	-	24.4	-	-
136	63.5	-	-	-	51.9	-	-	44.4	-	-	37.5	-	-	30.5	-	-	24.1	-	-
144	62.6	57.7	-	-	51.6	-	-	44.3	-	-	37.5	-	-	30.4	-	-	24.0	-	-
152	61.8	55.2	-	-	51.1	47.7	-	44.1	-	-	37.3	-	-	30.2	-	-	23.8	-	-
160	60.6	52.6	-	-	50.5	46.2	-	44.0	42.1	-	37.3	-	-	30.1	-	-	23.6	-	-
168	59.2	50.2	-	-	50.1	44.7	-	43.8	40.8	-	37.0	35.2	-	29.9	-	-	23.5	-	-
176	57.6	47.8	-	-	49.7	43.2	-	43.7	39.6	-	37.0	34.7	-	29.8	-	-	23.2	-	-
184	54.6	45.9	40.5	-	49.1	41.7	-	43.4	38.4	-	36.9	34.2	-	29.6	29.4	-	23.0	-	-
192	51.1	44.2	38.4	-	48.4	40.2	36.4	43.1	37.2	-	36.8	33.6	-	29.5	29.3	-	22.9	23.3	-
200	46.6	42.6	36.5	-	46.8	38.8	34.5	42.7	36.0	-	36.5	33.1	-	29.4	29.3	-	22.8	23.2	-
208	37.5	41.0	34.9	-	44.7	37.4	32.8	41.9	34.8	31.3	36.2	32.5	-	29.1	29.2	-	22.6	23.1	-
216	-	38.9	33.4	-	42.3	36.0	31.2	40.9	33.6	29.6	36.0	31.8	-	28.7	29.1	-	22.5	22.9	-
224	-	37.2	32.3	-	34.0	34.9	29.8	38.8	32.4	28.2	35.7	30.9	27.3	28.3	29.0	-	22.1	22.8	-
232	-	-	31.2	-	33.7	28.6	36.0	31.2	26.8	35.3	29.9	25.8	27.9	28.6	25.4	-	21.7	22.6	-
240	-	-	30.0	-	31.9	27.5	31.5	30.0	25.6	34.5	28.8	24.5	27.5	27.7	24.2	-	21.5	22.4	-
248	-	-	-	-	-	26.3	-	28.6	24.3	32.2	27.7	23.4	27.1	26.7	23.0	-	21.2	22.1	22.0
256	-	-	-	-	-	-	-	27.1	23.1	29.2	26.7	22.5	26.7	25.8	21.8	-	20.9	21.8	20.9
264	-	-	-	-	-	-	-	25.8	21.9	22.4	25.2	21.4	26.3	24.7	20.9	-	20.5	21.4	20.0
272	-	-	-	-	-	-	-	-	20.8	-	23.8	20.3	24.9	23.5	19.8	-	20.2	21.1	19.0
280	-	-	-	-	-	-	-	-	19.7	-	22.6	19.1	21.8	22.2	18.6	-	19.9	20.8	17.7
288	-	-	-	-	-	-	-	-	-	-	-	18.0	-	21.0	17.6	-	19.6	20.0	16.6
296	-	-	-	-	-	-	-	-	-	-	-	-	-	20.0	16.7	-	19.0	19.1	15.6
304	-	-	-	-	-	-	-	-	-	-	-	-	-	19.0	15.7	-	14.7	18.0	14.7
312	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8	-	-	17.1	13.7
320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.8	-	-	16.2	12.9
328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.1

360°															85%
 108.9 ft + 13.1 ft 30° (* 60°)															
ft	98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft	1,000 lb														
64	185.5*	-	-	182.0*	-	-	-	-	-	-	-	-	-	-	-
72	164.9*	-	-	163.2*	-	-	161.5*	-	-	-	-	-	-	-	-
80	147.8	-	-	146.0	-	-	144.3*	-	-	130.2*	-	-	117.8*	-	-
88	133.4	-	-	131.7	-	-	130.1*	-	-	123.9*	-	-	115.7*	-	-
96	121.6*	108.6	-	119.8*	-	-	118.1	-	-	117.9*	-	-	113.5*	-	-
104	111.4	99.4	-	109.7	97.4	-	107.9	-	-	109.4*	-	-	107.4*	-	-
112	-	91.5	-	101.0	89.6	-	99.2	87.6	-	100.8	-	-	99.0*	-	-
120	-	84.7	76.7	93.4	82.8	-	91.7	80.8	-	93.1	-	-	91.6	-	-
128	-	78.9	71.3	79.7	76.8	-	85.2	74.9	-	86.5	76.1	-	85.0	-	-
136	-	-	66.5	-	71.5	64.3	79.3	69.7	-	80.6	70.8	-	79.1	69.0	-
144	-	-	62.1	-	67.0	59.9	74.3	65.0	58.0	75.4	66.1	-	73.9	64.4	-
152	-	-	-	-	-	56.2	-	60.8	54.2	70.8	62.1	-	69.3	60.3	-
160	-	-	-	-	-	52.9	-	57.1	50.8	66.0	58.3	51.9	65.2	56.7	-
168	-	-	-	-	-	-	-	53.9	47.7	53.9	54.8	48.8	61.4	53.1	47.0
176	-	-	-	-	-	-	-	-	44.9	-	51.8	46.0	58.0	50.0	44.3
184	-	-	-	-	-	-	-	-	-	-	49.2	43.6	48.2	47.4	41.7
192	-	-	-	-	-	-	-	-	-	-	-	41.2	-	44.9	39.3
200	-	-	-	-	-	-	-	-	-	-	-	39.1	-	42.6	37.2
208	-	-	-	-	-	-	-	-	-	-	-	-	-	40.4	35.3
216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33.4

ft	196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft	1,000 lb																	
88	90.3*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	88.0*	-	-	72.7*	-	-	61.5*	-	-	-	-	-	-	-	-	-	-	-
104	85.8*	-	-	70.2*	-	-	60.5*	-	-	48.2*	-	-	-	-	-	-	-	-
112	83.4*	-	-	68.0*	-	-	59.7*	-	-	47.3*	-	-	38.6*	-	-	31.9*	-	-
120	81.2*	-	-	65.6*	-	-	58.7*	-	-	46.3*	-	-	37.9*	-	-	31.2*	-	-
128	78.9*	-	-	63.4*	-	-	57.8*	-	-	45.5*	-	-	37.3*	-	-	30.5*	-	-
136	76.8*	-	-	61.7*	-	-	56.7*	-	-	44.7*	-	-	36.6*	-	-	29.9*	-	-
144	73.2*	63.7	-	60.0*	-	-	55.4*	-	-	43.9*	-	-	36.0*	-	-	29.3*	-	-
152	68.6	59.5	-	58.4*	56.0	-	54.3*	-	-	42.8*	-	-	35.2*	-	-	28.6*	-	-
160	64.4	55.8	-	56.6*	54.0	-	52.9*	44.8	-	41.7*	-	-	34.3*	-	-	28.0*	-	-
168	60.7	52.5	-	55.2*	50.7	-	51.6*	44.3	-	40.5*	35.8	-	33.2*	-	-	27.3*	-	-
176	57.2	49.4	-	54.2*	47.4	-	50.2*	43.7	-	39.4*	35.5	-	32.1*	31.8	-	26.6*	-	-
184	54.1	46.6	40.8	51.9*	44.7	-	49.1*	42.2	-	38.3*	35.2	-	31.2*	31.2	-	25.8*	25.1	-
192	50.8	44.0	38.4	49.5*	42.1	36.6	47.7*	40.3	-	37.6*	34.8	-	30.5*	30.5	-	25.0*	24.6	-
200	46.1	41.8	36.4	46.9*	39.8	34.4	45.2*	38.0	-	37.2*	34.5	-	29.7*	29.8	-	24.2*	24.0	-
208	37.0	39.6	34.4	44.5*	37.6	32.4	42.8*	35.7	30.4	36.8*	34.2	-	29.0*	29.2	-	23.3*	23.5	-
216	-	37.6	32.5	42.0*	35.6	30.5	40.5*	33.6	28.6	36.4*	33.4	28.1	28.5*	28.5	-	22.7*	23.0	-
224	-	35.8	30.9	33.5*	33.9	28.9	38.5*	31.9	26.9	36.0*	31.5	26.5	27.9*	27.9	25.7	22.3*	22.4	-
232	-	-	29.3	-	32.2	27.3	35.6*	30.2	25.4	35.4*	29.7	24.9	27.4*	27.4	24.5	21.9*	21.9	-
240	-	-	27.9	-	30.5	25.9	30.8*	28.6	23.9	34.2*	28.1	23.4	26.9*	27.0	23.0	21.4*	21.4	20.4
248	-	-	-	-	-	24.6	-	27.1	22.6	32.0*	26.6	22.1	26.4*	26.1	21.7	20.9*	20.8	19.9
256	-	-	-	-	-	-	-	25.8	21.4	29.2*	25.1	20.7	26.0*	24.9	20.5	20.5*	20.3	19.4
264	-	-	-	-	-	-	-	24.6	20.2	22.4*	23.9	19.6	25.7*	23.6	19.3	20.1*	19.7	18.3
272	-	-	-	-	-	-	-	-	19.0	-	22.7	18.6	24.5*	22.3	18.1	19.7*	19.3	17.2
280	-	-	-	-	-	-	-	17.9	-	21.5	17.5	17.5	21.7*	21.2	17.0	19.5*	18.8	16.2
288	-	-	-	-	-	-	-	-	-	-	16.5	-	20.2	16.1	16.1	19.1*	18.4	15.2
296	-	-	-	-	-	-	-	-	-	-	-	-	19.1	15.1	15.1	18.5*	18.0	14.3
304	-	-	-	-	-	-	-	-	-	-	-	-	18.2	14.2	14.2	14.6*	14.6	13.4
312	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.3	-	16.3	12.4
320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.5	-	15.4	11.6
328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.9

176,400 lb 220,500 lb 264,600 lb 308,700 lb 352,800 lb 396,800 lb

360°																		85%	
 124.3 ft +  13.1 ft																			
		78.7 ft			98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft		
		83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft								1,000 lb											
64	134.5	-	-	121.8	-	-	108.0	-	-	-	-	-	-	-	-	-	-	-	-
72	125.2	-	-	115.4	-	-	103.9	-	-	90.0	-	-	-	-	-	-	-	-	-
80	116.8	-	-	109.5	-	-	99.9	-	-	87.5	-	-	-	76.0	-	-	66.5	-	-
88	111.0	-	-	103.6	-	-	95.6	-	-	84.9	-	-	-	74.4	-	-	65.6	-	-
96	-	88.9	-	98.7	-	-	91.3	-	-	82.0	-	-	-	72.8	-	-	64.7	-	-
104	-	81.8	-	94.6	80.6	-	87.0	-	-	78.9	-	-	-	71.2	-	-	63.8	-	-
112	-	76.2	-	-	74.7	-	83.8	71.2	-	75.9	-	-	-	69.6	-	-	62.8	-	-
120	-	-	-	-	69.8	-	80.9	66.6	-	73.1	64.6	-	-	67.7	-	-	61.5	-	-
128	-	-	59.9	-	65.7	59.1	78.3	62.4	-	70.6	60.8	-	-	66.1	61.3	-	60.3	-	-
136	-	-	-	-	62.7	54.9	-	59.1	-	68.2	57.1	-	-	64.5	58.0	-	58.9	-	-
144	-	-	-	-	-	51.5	-	56.1	48.4	66.2	53.7	-	-	63.1	54.8	-	57.8	52.8	-
152	-	-	-	-	-	-	-	54.1	45.3	-	51.0	44.4	-	61.8	51.7	-	56.5	50.1	-
160	-	-	-	-	-	-	-	-	43.0	-	48.4	41.5	-	60.6	49.1	-	55.2	47.4	-
168	-	-	-	-	-	-	-	-	41.1	-	46.6	39.1	-	57.4	47.0	40.7	54.1	44.9	-
176	-	-	-	-	-	-	-	-	-	-	45.6	37.1	-	-	44.8	38.3	52.9	42.8	-
184	-	-	-	-	-	-	-	-	-	-	-	35.6	-	-	43.5	36.4	48.9	40.8	35.0
192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42.4	34.7	-	39.0	32.9
200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33.1	-	37.6	31.3
208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32.2	-	36.7	29.9
216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.0	28.5
224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27.6

	196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft	1,000 lb																	
88	59.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	58.1	-	-	45.9	-	-	40.8	-	-	-	-	-	-	-	-	-	-	-
104	57.2	-	-	45.7	-	-	40.6	-	-	33.1	-	-	-	-	-	-	-	-
112	56.2	-	-	45.2	-	-	40.1	-	-	33.1	-	-	26.9	-	-	21.8	-	-
120	55.3	-	-	44.8	-	-	39.8	-	-	33.0	-	-	26.9	-	-	21.8	-	-
128	54.3	-	-	44.4	-	-	39.6	-	-	32.8	-	-	26.8	-	-	21.5	-	-
136	53.4	-	-	44.2	-	-	39.1	-	-	32.8	-	-	26.7	-	-	21.4	-	-
144	52.5	-	-	43.7	-	-	38.8	-	-	32.6	-	-	26.7	-	-	21.2	-	-
152	51.5	47.5	-	43.4	-	-	38.5	-	-	32.6	-	-	26.5	-	-	21.1	-	-
160	50.6	45.4	-	43.0	40.3	-	38.1	-	-	32.5	-	-	26.5	-	-	20.9	-	-
168	49.6	43.2	-	42.6	38.8	-	37.8	34.4	-	32.4	-	-	26.4	-	-	20.9	-	-
176	48.8	40.9	-	42.2	37.5	-	37.5	33.4	-	32.4	30.4	-	26.3	-	-	20.7	-	-
184	48.0	39.0	-	41.9	36.1	-	37.1	32.5	-	32.3	29.6	-	26.0	24.7	-	20.5	-	-
192	47.1	37.4	33.1	41.6	34.7	-	36.8	31.6	-	32.2	29.0	-	26.0	24.7	-	20.3	-	-
200	46.5	35.7	31.1	41.2	33.3	-	36.5	30.8	-	32.0	28.3	-	25.9	24.5	-	20.1	19.5	-
208	41.7	34.1	29.3	40.8	31.9	27.7	36.2	29.7	-	32.0	27.6	-	25.8	24.4	-	20.0	19.3	-
216	-	32.7	27.9	40.4	30.5	25.9	35.8	28.5	24.8	32.0	26.9	-	25.8	24.3	-	19.9	19.2	-
224	-	32.1	26.5	35.5	29.0	24.5	35.5	27.3	23.3	31.7	26.1	22.8	25.7	24.1	-	19.7	18.9	-
232	-	-	25.3	-	27.8	23.2	34.7	26.1	21.9	31.7	25.0	21.4	25.6	24.0	-	19.6	18.7	-
240	-	-	24.5	-	27.3	22.0	32.7	24.7	20.5	31.7	24.0	20.1	25.4	23.3	20.0	19.4	18.6	-
248	-	-	-	-	26.8	21.1	-	23.8	19.4	31.4	22.9	18.8	25.3	22.3	18.8	19.2	18.3	-
256	-	-	-	-	-	20.3	-	23.1	18.3	30.8	21.8	17.6	25.1	21.4	17.6	19.2	17.9	14.5
264	-	-	-	-	-	19.7	-	22.7	17.5	24.7	21.0	16.7	25.1	20.4	16.4	19.0	17.3	13.9
272	-	-	-	-	-	-	-	-	16.8	-	20.4	15.7	24.6	19.5	15.4	18.9	16.8	13.2
280	-	-	-	-	-	-	-	-	16.2	-	20.0	14.8	23.1	18.6	14.5	18.8	16.2	12.5
288	-	-	-	-	-	-	-	-	-	-	19.5	14.3	-	18.0	13.7	18.6	15.7	11.9
296	-	-	-	-	-	-	-	-	-	-	-	13.8	-	17.6	13.0	18.3	15.2	11.2
304	-	-	-	-	-	-	-	-	-	-	-	13.3	-	17.3	12.4	15.6	14.9	10.7
312	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.9	-	14.7	10.2
320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5	-	14.6	9.8
328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.0	9.5
336	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.2
344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9

360°															85%		
																	
	98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft				
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°		
ft						1,000 lb											
64	170.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
72	160.7	-	-	157.5*	-	-	-	-	-	-	-	-	-	-	-		
80	146.5*	-	-	144.8*	-	-	140.9*	-	-	129.6*	-	-	-	-	-		
88	132.3	-	-	130.7	-	-	129.0*	-	-	124.0*	-	-	107.6*	-	-		
96	120.4	-	-	118.7	-	-	117.1*	-	-	117.5*	-	-	105.6*	-	-		
104	110.3	97.2	-	108.6	-	-	107.0	-	-	108.6*	-	-	103.6*	-	-		
112	-	89.6	-	99.9	87.6	-	98.3	-	-	99.9	-	-	98.1*	-	-		
120	-	82.8	-	92.6	80.8	-	90.8	79.0	-	92.3	-	-	90.7*	-	-		
128	-	77.1	68.8	83.9	75.0	-	84.3	73.2	-	85.8*	74.5	-	84.1	-	-		
136	-	72.0	64.1	-	69.9	-	78.6	67.9	-	80.0	69.2	-	78.4	-	-		
144	-	-	59.9	-	65.2	57.7	73.4	63.3	-	74.7	64.6	-	73.2	62.8	-		
152	-	-	-	-	61.3	54.0	-	59.2	52.0	70.2	60.6	-	68.6	58.8	-		
160	-	-	-	-	-	50.8	-	55.6	48.8	66.1	56.8	-	64.5	55.1	-		
168	-	-	-	-	-	47.8	-	52.6	45.8	58.0	53.5	46.8	60.8	51.8	-		
176	-	-	-	-	-	-	-	49.6	43.2	-	50.5	44.0	57.3	48.8	42.3		
184	-	-	-	-	-	-	-	-	40.7	-	47.9	41.7	50.6	46.1	39.8		
192	-	-	-	-	-	-	-	-	-	-	45.4	39.4	-	43.6	37.5		
200	-	-	-	-	-	-	-	-	-	-	-	37.4	-	41.3	35.5		
208	-	-	-	-	-	-	-	-	-	-	-	35.5	-	39.3	33.6		
216	-	-	-	-	-	-	-	-	-	-	-	-	-	37.4	31.9		
224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.2		

														
196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft		
83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
1,000 lb														
ft														
88	85.0*	-	-	-	-	-	-	-	-	-	-	-	-	-
96	83.2*	-	-	69.5*	-	-	-	-	-	-	-	-	-	-
104	81.5*	-	-	67.7*	-	57.4*	-	-	46.6*	-	-	-	-	-
112	79.7*	-	-	66.0*	-	56.9*	-	-	45.8*	-	-	37.0*	-	-
120	78.0*	-	-	64.4*	-	56.5*	-	-	45.3*	-	-	36.5*	-	-
128	76.3*	-	-	62.6*	-	56.0*	-	-	44.6*	-	-	36.2*	-	-
136	74.5*	-	-	61.0*	-	55.6*	-	-	44.0*	-	-	35.6*	-	-
144	72.4*	-	-	59.4*	-	54.7*	-	-	43.2*	-	-	35.3*	-	-
152	67.8*	57.9	-	57.8*	-	53.4*	-	-	42.4*	-	-	34.8*	-	-
160	63.8*	54.2	-	56.4*	49.6	52.3*	-	-	41.3*	-	-	34.1*	-	-
168	60.1*	50.9	-	54.8*	48.1	51.1*	39.9	-	40.3*	-	-	33.1*	-	-
176	56.7*	47.8	-	53.7*	45.9	49.8*	39.5	-	39.2*	33.1	-	32.1*	-	-
184	53.7*	45.3	-	51.4*	43.3	48.6*	39.1	-	38.1*	33.0	-	31.2*	28.5	-
192	50.8*	42.7	36.6	48.8*	40.8	47.1*	38.4	-	37.1*	32.8	-	30.2*	28.1	-
200	48.3*	40.4	34.6	46.3*	38.6	44.5*	36.5	-	36.3*	32.7	-	29.3*	27.7	-
208	41.3*	38.2	32.7	44.0*	36.4	42.0*	34.5	-	35.6*	32.4	-	28.4*	27.3	-
216	-	36.3	31.0	41.6*	34.5	39.8	32.5	26.8	34.9*	32.0	-	27.8*	26.9	-
224	-	34.7	29.4	35.4*	32.6	37.8	30.8	25.3	34.2*	30.4	24.8	27.2*	26.5	-
232	-	-	27.8	-	30.9	35.8	29.1	23.8	33.6	28.6	23.4	26.5	26.2	-
240	-	-	26.3	-	29.4	34.3	27.5	22.3	33.2	27.0	21.9	26.0	25.8	21.4
248	-	-	-	-	28.0	33.0	26.0	21.0	32.1	25.6	20.6	25.5	24.9	20.2
256	-	-	-	-	21.8	30.7	24.7	19.8	30.6	24.2	19.4	25.1	23.8	18.9
264	-	-	-	-	20.7	29.5	23.5	18.6	24.7	22.9	18.2	24.9	22.6	17.7
272	-	-	-	-	-	27.5	22.3	17.5	-	21.6	17.1	24.2	21.4	16.6
280	-	-	-	-	-	26.6	21.0	16.6	-	20.6	16.1	23.0	20.2	15.7
288	-	-	-	-	-	-	20.6	19.5	-	19.5	15.2	-	19.2	14.7
296	-	-	-	-	-	-	-	-	-	-	14.2	-	18.2	13.8
304	-	-	-	-	-	-	-	-	-	-	13.3	-	17.3	12.9
312	-	-	-	-	-	-	-	-	-	-	-	-	16.6	12.0
320	-	-	-	-	-	-	-	-	-	-	-	-	15.4	11.1
328	-	-	-	-	-	-	-	-	-	-	-	-	14.5	10.3
336	-	-	-	-	-	-	-	-	-	-	-	-	13.7	9.6
344	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9
344	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3

360°																		85%	
 139.4 ft +  13.1 ft																			
		78.7 ft			98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft		
		83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft		1,000 lb																	
64	111.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
72	103.3	-	-	-	93.6	-	-	84.7	-	-	-	-	-	-	-	-	-	-	-
80	96.7	-	-	-	88.8	-	-	80.9	-	-	71.2	-	-	63.9	-	-	-	-	-
88	91.2	-	-	-	84.2	-	-	77.3	-	-	68.4	-	-	62.2	-	-	55.0	-	-
96	-	-	-	-	80.1	-	-	74.2	-	-	65.8	-	-	60.5	-	-	53.5	-	-
104	-	67.8	-	-	76.9	-	-	71.1	-	-	63.5	-	-	58.8	-	-	52.2	-	-
112	-	62.8	-	-	-	61.5	-	68.4	-	-	61.2	-	-	57.2	-	-	50.9	-	-
120	-	-	-	-	-	57.1	-	66.2	54.7	-	59.1	-	-	55.8	-	-	49.5	-	-
128	-	-	-	-	-	53.6	-	64.0	51.2	-	57.3	48.2	-	54.3	-	-	48.3	-	-
136	-	-	-	46.1	-	50.5	-	-	48.1	-	55.7	45.2	-	52.9	46.2	-	47.0	-	-
144	-	-	-	-	-	-	41.8	-	45.5	-	54.1	42.2	-	51.9	43.6	-	45.7	-	-
152	-	-	-	-	-	-	39.4	-	43.4	37.4	-	39.9	-	50.7	41.1	-	44.9	39.4	-
160	-	-	-	-	-	-	-	-	35.1	-	-	37.9	-	49.6	38.6	-	44.1	37.2	-
168	-	-	-	-	-	-	-	-	33.4	-	-	36.4	31.5	49.0	36.9	-	43.3	34.9	-
176	-	-	-	-	-	-	-	-	31.8	-	-	35.0	29.6	-	35.3	30.9	42.4	32.9	-
184	-	-	-	-	-	-	-	-	-	-	-	-	28.1	-	33.9	29.2	42.1	31.5	27.7
192	-	-	-	-	-	-	-	-	-	-	-	-	26.7	-	32.7	27.5	-	30.1	26.1
200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.3	-	28.6	24.5
208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.3	-	27.8	23.1
216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.3	-	27.4	21.9
224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.1

 	196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft							1,000 lb											
96	47.9	-	-	39.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
104	46.9	-	-	38.9	-	-	32.7	-	-	-	-	-	-	-	-	-	-	-
112	46.0	-	-	38.3	-	-	32.4	-	-	28.2	-	-	22.5	-	-	-	-	-
120	45.0	-	-	37.7	-	-	32.1	-	-	27.9	-	-	22.4	-	-	17.4	-	-
128	44.1	-	-	37.0	-	-	31.6	-	-	27.7	-	-	22.3	-	-	17.4	-	-
136	43.2	-	-	36.5	-	-	31.4	-	-	27.4	-	-	22.1	-	-	17.4	-	-
144	42.4	-	-	36.0	-	-	30.9	-	-	27.1	-	-	22.0	-	-	17.2	-	-
152	41.4	-	-	35.5	-	-	30.6	-	-	26.9	-	-	22.0	-	-	17.2	-	-
160	40.5	36.6	-	35.1	-	-	30.1	-	-	26.6	-	-	21.8	-	-	17.2	-	-
168	39.8	34.5	-	34.6	32.2	-	29.7	-	-	26.3	-	-	21.8	-	-	17.1	-	-
176	39.1	32.5	-	34.0	30.5	-	29.4	27.1	-	26.1	-	-	21.6	-	-	17.0	-	-
184	38.4	30.7	-	33.6	28.7	-	29.0	25.7	-	25.9	23.8	-	21.6	-	-	17.0	-	-
192	37.8	29.0	-	33.2	27.0	-	28.6	24.4	-	25.5	22.7	-	21.6	19.3	-	17.0	-	-
200	37.4	27.7	24.2	32.8	25.4	-	28.5	23.2	-	25.2	21.8	-	21.4	18.7	-	17.0	-	-
208	37.3	26.5	22.7	32.6	24.1	20.7	28.3	22.0	-	25.1	20.8	-	21.3	18.2	-	16.8	14.6	-
216	-	25.2	21.3	32.2	23.0	19.5	28.0	20.8	-	24.9	19.7	-	21.2	17.7	-	16.8	14.3	-
224	-	24.5	20.2	31.9	21.9	18.1	27.9	19.8	16.6	24.7	18.7	-	21.2	17.3	-	16.8	14.2	-
232	-	-	19.2	-	20.9	17.0	27.7	18.9	15.5	24.3	17.8	-	21.1	16.8	-	16.7	14.0	-
240	-	-	18.4	-	20.1	16.2	27.4	18.0	14.3	24.1	17.0	13.8	21.0	16.1	-	16.6	13.8	-
248	-	-	17.7	-	19.7	15.3	-	17.1	13.4	23.9	16.1	12.7	20.9	15.5	12.6	16.5	13.4	-
256	-	-	-	-	-	14.3	-	16.3	12.6	23.8	15.2	11.7	20.7	14.8	11.7	16.5	13.0	-
264	-	-	-	-	-	13.9	-	16.0	11.8	23.4	14.4	11.0	20.7	14.0	10.7	16.4	12.5	-
272	-	-	-	-	-	-	-	-	11.0	-	13.8	10.3	20.7	13.2	9.9	16.3	11.9	-
280	-	-	-	-	-	-	-	-	10.5	-	13.5	9.5	20.5	12.5	9.2	16.3	11.2	-
288	-	-	-	-	-	-	-	-	10.2	-	13.3	8.9	-	12.1	8.5	16.2	10.6	-
296	-	-	-	-	-	-	-	-	-	-	8.4	-	-	11.7	7.9	16.1	10.1	-
304	-	-	-	-	-	-	-	-	-	-	8.1	-	-	11.4	7.4	15.9	9.6	-
312	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9	-	9.2	-
320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.7	-	9.1	-
328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.3	-	8.9	-

132,300 lb 176,400 lb 220,500 lb 264,600 lb 308,700 lb 352,800 lb 396,800 lb

360°															85%		
 139.4 ft + 13.1 ft																	
	98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft				
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°		
ft						1,000 lb											
72	154.6*	-	-	147.7*	-	-	-	-	-	-	-	-	-	-	-		
80	142.6*	-	-	137.3*	-	-	129.3*	-	-	-	-	-	-	-	-		
88	131.3*	-	-	127.2*	-	-	121.7*	-	-	-	115.4*	-	-	97.5*	-		
96	119.5	-	-	117.7*	-	-	114.1*	-	-	-	109.7*	-	-	95.2*	-		
104	109.4	-	-	107.7*	-	-	106.1*	-	-	-	103.9*	-	-	92.7*	-		
112	-	87.6	-	99.0	-	-	97.5*	-	-	-	98.6*	-	-	90.3*	-		
120	-	81.1	-	91.7	79.1	-	90.1*	-	-	-	91.4*	-	-	87.6*	-		
128	-	75.4	-	85.3	73.3	-	83.5	71.4	-	-	85.0*	-	-	83.2*	-		
136	-	70.3	61.8	-	68.1	-	77.8	66.3	-	-	79.2*	67.7	-	77.5*	-		
144	-	-	57.7	-	63.7	-	72.7	61.7	-	-	74.1*	63.0	-	72.5*	61.3		
152	-	-	54.2	-	59.7	52.0	-	57.7	-	-	69.5	59.0	-	68.0*	57.3		
160	-	-	-	-	-	48.8	-	54.2	46.7	-	65.4	55.4	-	63.9*	53.6		
168	-	-	-	-	-	45.9	-	51.0	43.9	-	61.0	52.2	-	60.2	50.3		
176	-	-	-	-	-	43.4	-	48.1	41.2	-	-	49.2	42.3	56.7	47.4		
184	-	-	-	-	-	-	-	-	38.8	-	-	46.5	39.9	53.6	44.7		
192	-	-	-	-	-	-	-	-	36.6	-	-	44.1	37.7	-	42.3		
200	-	-	-	-	-	-	-	-	-	-	-	-	35.6	-	40.0		
208	-	-	-	-	-	-	-	-	-	-	-	-	33.8	-	37.9		
216	-	-	-	-	-	-	-	-	-	-	-	-	32.1	-	36.1		
224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

		196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
		83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft								1,000 lb											
96	79.2	*	-	-	64.3	*	-	-	-	-	-	-	-	-	-	-	-	-	-
104	77.6	*	-	-	63.2	*	-	-	55.8	*	-	-	-	-	-	-	-	-	-
112	76.0	*	-	-	61.9	*	-	-	55.3	*	-	-	43.6	*	-	-	35.5	*	-
120	74.1	*	-	-	60.8	*	-	-	54.8	*	-	-	43.3	*	-	-	35.1	*	-
128	72.5	*	-	-	59.6	*	-	-	54.3	*	-	-	42.9	*	-	-	34.7	*	-
136	70.7	*	-	-	58.4	*	-	-	53.9	*	-	-	42.4	*	-	-	34.5	*	-
144	69.1	*	-	-	57.4	*	-	-	53.4	*	-	-	42.1	*	-	-	34.2	*	-
152	67.1	*	54.5	-	56.3	*	-	-	52.3	*	-	-	41.6	*	-	-	33.9	*	-
160	63.1	*	52.6	-	55.0	*	43.0	-	51.2	*	-	-	40.8	*	-	-	33.3	*	-
168	59.3	*	49.6	-	53.9	*	42.4	-	50.2	*	35.9	-	39.8	*	-	-	32.7	*	-
176	56.0	*	46.5	-	52.8	*	41.6	-	49.1	*	35.5	-	38.7	*	-	-	31.9	*	-
184	53.0	*	43.9	-	50.7	*	40.8	-	48.0	*	35.2	-	37.8	*	30.4	-	30.9	*	-
192	50.2	*	41.4	-	48.4	*	39.6	-	46.6	*	34.7	-	36.8	*	30.2	-	30.0	*	23.8
200	47.6	*	39.3	32.8	45.8	*	37.4	-	44.1	*	34.3	-	35.9	*	30.0	-	29.2	*	23.6
208	43.3	*	37.1	31.0	43.4	*	35.2	29.0	41.6	*	33.2	-	35.2	*	29.8	-	28.4	*	23.6
216	-		35.2	29.2	41.1	*	33.2	27.2	39.4	*	31.4	-	34.6	*	29.6	-	27.6	*	23.6
224	-		33.5	27.7	37.4	*	31.6	25.7	37.4	*	29.7	23.8	34.0	*	28.7	-	27.1	*	23.5
232	-	-		26.3	-		30.0	24.3	35.4	*	28.0	22.3	33.3	*	27.6	21.9	26.5	*	23.4
240	-	-		24.9	-		28.3	23.0	33.6	*	26.4	20.8	32.6	*	26.1	20.5	25.8	*	23.3
248	-	-		23.7	-		26.9	21.6	-		24.9	19.5	31.5	*	24.6	19.2	25.2	*	23.1
256	-	-	-		-		20.3	-	-		23.6	18.3	30.2	*	23.1	17.8	24.7	*	22.9
264	-	-	-		-		19.2	-	-		22.4	17.2	25.9	*	21.9	16.8	24.3	*	21.6
272	-	-	-		-		-	-	-		16.2	-	20.8	*	15.7	15.7	23.9	*	20.3
280	-	-	-		-		-	-	-		15.2	-	19.7	*	14.8	14.8	23.5	*	19.2
288	-	-	-		-		-	-	-		14.4	-	18.6	*	13.9	13.9	-		18.2
296	-	-	-		-		-	-	-		-	-	12.9	*	-	12.9	-		17.1
304	-	-	-		-		-	-	-		-	-	12.1	*	-	12.1	-		16.3
312	-	-	-		-		-	-	-		-	-	-	*	-	-	-		10.9
320	-	-	-		-		-	-	-		-	-	-	*	-	-	-		10.1
328	-	-	-		-		-	-	-		-	-	-	*	-	-	-		9.4
336	-	-	-		-		-	-	-		-	-	-	*	-	-	-		-
344	-	-	-		-		-	-	-		-	-	-	*	-	-	-		-

176,400 lb 220,500 lb 264,600 lb 308,700 lb 352,800 lb 396,800 lb

360°																		85%	
 154.9 ft +  13.1 ft																			
		78.7 ft			98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft		
		83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft							1,000 lb												
72	84.3	-	-	75.5	-	-	68.8	-	-	-	-	-	-	-	-	-	-	-	-
80	80.1	-	-	72.1	-	-	66.2	-	-	56.8	-	-	52.0	-	-	-	-	-	-
88	76.3	-	-	69.1	-	-	63.6	-	-	54.6	-	-	50.7	-	-	-	45.3	-	-
96	72.9	-	-	66.3	-	-	61.1	-	-	52.6	-	-	49.3	-	-	-	44.2	-	-
104	-	-	-	63.8	-	-	58.7	-	-	50.9	-	-	48.0	-	-	-	42.9	-	-
112	-	52.9	-	61.6	49.8	-	56.3	-	-	49.3	-	-	46.7	-	-	-	41.8	-	-
120	-	49.3	-	-	46.4	-	54.6	-	-	47.7	-	-	45.5	-	-	-	40.8	-	-
128	-	-	-	-	43.2	-	52.8	41.0	-	46.2	-	-	44.2	-	-	-	39.7	-	-
136	-	-	-	-	40.8	-	51.4	38.3	-	45.0	36.7	-	43.0	-	-	-	38.8	-	-
144	-	-	35.6	-	38.5	-	-	36.2	-	43.7	34.3	-	41.9	35.4	-	-	37.7	-	-
152	-	-	-	-	-	31.9	-	34.4	-	42.7	32.0	-	41.1	33.3	-	-	36.7	31.5	-
160	-	-	-	-	-	29.8	-	32.7	27.7	-	30.4	-	40.1	31.3	-	-	36.1	29.6	-
168	-	-	-	-	-	-	-	-	26.2	-	28.8	24.3	39.4	29.5	-	-	35.3	27.8	-
176	-	-	-	-	-	-	-	-	24.7	-	27.3	22.7	38.9	28.2	-	-	34.5	26.0	-
184	-	-	-	-	-	-	-	-	-	-	-	21.3	-	26.8	22.5	-	34.0	24.6	-
192	-	-	-	-	-	-	-	-	-	-	-	20.1	-	25.7	21.2	-	33.6	23.4	-
200	-	-	-	-	-	-	-	-	-	-	-	19.1	-	25.0	20.1	-	-	22.3	18.2
208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.1	-	-	21.4	17.1
216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.1	-	-	20.6	16.2
224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.1
232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.4
240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.9

		196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
		83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft								1,000 lb											
96	39.0	-	-	31.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
104	38.2	-	-	31.2	-	-	26.2	-	-	-	-	-	-	-	-	-	-	-	-
112	37.4	-	-	30.4	-	-	25.8	-	-	21.1	-	-	-	-	-	-	-	-	-
120	36.6	-	-	29.9	-	-	25.4	-	-	20.9	-	-	18.1	-	-	13.9	-	-	-
128	35.8	-	-	29.3	-	-	25.0	-	-	20.6	-	-	18.0	-	-	13.9	-	-	-
136	35.0	-	-	28.8	-	-	24.6	-	-	20.3	-	-	17.7	-	-	13.7	-	-	-
144	34.2	-	-	28.2	-	-	24.3	-	-	20.1	-	-	17.4	-	-	13.7	-	-	-
152	33.6	-	-	27.7	-	-	23.8	-	-	19.8	-	-	17.2	-	-	13.7	-	-	-
160	32.8	28.8	-	27.4	-	-	23.5	-	-	19.5	-	-	17.1	-	-	13.6	-	-	-
168	32.1	27.2	-	26.9	24.6	-	23.2	-	-	19.3	-	-	16.9	-	-	13.4	-	-	-
176	31.4	25.6	-	26.3	23.3	-	22.8	-	-	19.2	-	-	16.8	-	-	13.4	-	-	-
184	30.7	24.0	-	25.9	21.9	-	22.5	19.5	-	18.9	-	-	16.6	-	-	13.4	-	-	-
192	30.1	22.5	-	25.5	20.4	-	22.2	18.3	-	18.7	16.8	-	16.5	-	-	13.4	-	-	-
200	29.7	21.4	-	25.1	19.1	-	21.9	17.2	-	18.4	15.8	-	16.3	12.7	-	13.3	-	-	-
208	29.5	20.3	16.6	24.7	18.0	-	21.7	16.1	-	18.2	14.9	-	16.2	12.3	-	13.2	-	-	-
216	29.3	19.3	15.5	24.3	17.0	-	21.4	14.9	-	18.1	14.0	-	16.1	11.9	-	13.2	-	-	-
224	-	18.4	14.6	24.1	16.1	12.4	21.1	14.0	-	18.0	13.0	-	16.0	11.5	-	13.2	-	-	-
232	-	17.8	13.7	-	15.2	11.4	20.9	13.3	9.9	17.8	12.1	-	15.8	11.1	-	13.2	-	-	-
240	-	17.5	12.8	-	14.4	10.6	20.6	12.6	8.9	17.7	11.5	-	15.7	10.7	-	13.2	-	-	-
248	-	-	12.2	-	13.9	9.9	20.3	11.8	8.1	17.5	10.8	-	15.6	10.1	-	13.1	-	-	-
256	-	-	-	-	-	9.3	-	11.0	7.3	17.4	10.1	-	15.4	9.5	-	13.0	-	-	-
264	-	-	-	-	-	8.7	-	10.6	6.7	17.4	9.5	-	15.3	8.9	-	13.0	-	-	-
272	-	-	-	-	-	8.2	-	10.3	6.2	-	8.9	-	15.2	8.3	-	13.0	-	-	-
280	-	-	-	-	-	7.8	-	10.0	5.7	-	8.5	-	15.2	7.7	-	13.0	-	-	-
288	-	-	-	-	-	-	-	-	5.2	-	8.2	-	14.8	7.2	-	12.9	-	-	-
296	-	-	-	-	-	-	-	-	-	-	-	-	-	6.8	-	12.8	-	-	-
304	-	-	-	-	-	-	-	-	-	-	-	-	-	6.5	-	12.8	-	-	-
312	-	-	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	-	-	-
320	-	-	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-	-	-	-

132,300 lb 176,400 lb 220,500 lb 264,600 lb 308,700 lb 352,800 lb 396,800 lb

360°															85%		
 154.9 ft + 13.1 ft  30° (*  60°)																	
 	98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft				
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°		
ft							1,000 lb										
72	126.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
80	121.2	-	-	112.3*	-	-	109.0*	-	-	-	-	-	-	-	-		
88	116.3	-	-	103.1*	-	-	100.9*	-	-	-	99.0*	-	-	-	-		
96	111.3	-	-	98.8	-	-	92.8*	-	-	-	92.6*	-	-	85.1*	-		
104	105.5	-	-	95.0	-	-	86.0*	-	-	-	86.1*	-	-	80.9*	-		
112	99.1	85.8	-	91.5	-	-	81.2	-	-	-	80.2*	-	-	76.7*	-		
120	-	79.3	-	88.0	76.8	-	78.4	-	-	-	76.1*	-	-	72.5*	-		
128	-	73.6	-	84.0	71.6	-	76.0	69.6	-	-	71.8*	-	-	68.8*	-		
136	-	68.7	-	71.0	66.6	-	73.9	64.7	-	-	68.1	-	-	65.2*	-		
144	-	64.3	55.7	-	62.1	-	71.7	60.2	-	-	66.4	61.4	-	61.7*	-		
152	-	-	52.3	-	58.2	-	65.9	56.4	-	-	64.8	57.7	-	58.2*	52.9		
160	-	-	49.1	-	54.8	46.9	-	52.8	-	-	63.2	54.1	-	56.3*	51.3		
168	-	-	-	-	-	44.1	-	49.6	41.9	-	57.5	51.0	-	54.5	49.0		
176	-	-	-	-	-	41.4	-	46.7	39.4	-	47.5	48.1	-	53.3	46.1		
184	-	-	-	-	-	-	-	-	37.0	-	-	45.4	38.2	52.0	43.5		
192	-	-	-	-	-	-	-	-	34.9	-	-	43.0	36.0	47.6	41.0		
200	-	-	-	-	-	-	-	-	33.0	-	-	40.8	34.1	-	38.8		
208	-	-	-	-	-	-	-	-	-	-	-	-	32.3	-	36.8		
216	-	-	-	-	-	-	-	-	-	-	-	-	30.5	-	35.0		
224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27.0		
232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.6		
240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.3		

ft	196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft	1,000 lb																	
96	69.9*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
104	67.7*	-	-	59.3*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
112	65.6*	-	-	57.7*	-	-	47.6*	-	-	40.1*	-	-	-	-	-	-	-	-
120	63.4*	-	-	56.1*	-	-	47.0*	-	-	39.8*	-	-	31.7*	-	-	-	-	-
128	61.3*	-	-	54.4*	-	-	46.3*	-	-	39.6*	-	-	31.5*	-	-	25.2*	-	-
136	59.3*	-	-	52.8*	-	-	45.6*	-	-	39.3*	-	-	31.4*	-	-	25.0*	-	-
144	57.2*	-	-	51.2*	-	-	45.0*	-	-	39.0*	-	-	31.1*	-	-	24.7*	-	-
152	55.1*	-	-	49.8*	-	-	43.9*	-	-	38.8*	-	-	30.8*	-	-	24.7*	-	-
160	53.1*	44.6	-	48.3*	-	-	42.9*	-	-	38.3*	-	-	30.6*	-	-	24.4*	-	-
168	51.2*	43.6	-	46.9*	37.2	-	41.8*	-	-	37.6*	-	-	30.4*	-	-	24.1*	-	-
176	49.6*	42.7	-	45.4*	36.7	-	40.7*	31.2	-	36.9*	-	-	29.8*	-	-	23.8*	-	-
184	48.0*	41.6	-	44.0*	36.1	-	39.5*	30.7	-	36.1*	24.9	-	29.3*	-	-	23.5*	-	-
192	46.4*	40.3	-	42.7*	35.6	-	38.4*	30.3	-	35.3*	24.6	-	28.8*	-	-	23.0*	-	-
200	45.0*	38.0	-	41.4*	35.1	-	37.3*	29.8	-	34.6*	24.4	-	28.2*	19.5	-	22.6*	-	-
208	40.4*	36.0	29.4	40.0*	33.9	-	36.1*	29.3	-	33.9*	24.2	-	27.8*	19.3	-	22.2*	14.8	-
216	33.1*	34.1	27.7	38.7*	32.1	25.7	34.9*	28.9	-	32.9*	24.0	-	27.4*	19.2	-	21.6*	14.8	-
224	-	32.4	26.2	37.2*	30.5	24.2	33.8*	28.2	-	32.0*	23.8	-	26.7*	19.2	-	21.2*	14.8	-
232	-	30.9	24.7	-	28.9	22.8	32.9*	26.9	20.8	31.0*	23.5	-	26.1*	19.1	-	20.8*	14.8	-
240	-	29.4	23.4	-	27.4	21.4	32.4*	25.4	19.4	29.9*	23.2	18.4	25.5*	19.0	-	20.4*	14.8	-
248	-	-	22.1	-	26.0	20.2	27.7*	24.0	18.2	29.2*	22.8	17.6	25.0*	18.8	-	19.9*	14.8	-
256	-	-	-	-	-	18.9	-	22.7	17.0	28.6*	22.3	16.5	24.5*	18.7	13.9	19.4*	14.8	-
264	-	-	-	-	-	17.9	-	21.5	15.9	26.5*	21.0	15.4	24.1*	18.6	13.8	19.0*	14.8	9.7
272	-	-	-	-	-	16.8	-	20.3	14.9	-	19.8	14.4	23.7*	18.4	13.5	18.6*	14.8	9.7
280	-	-	-	-	-	15.9	-	19.2	13.9	-	18.6	13.5	23.4*	18.2	12.9	18.2*	14.8	9.7
288	-	-	-	-	-	-	-	13.1	-	17.6	-	12.5	19.3*	17.3	12.1	17.9*	14.7	9.7
296	-	-	-	-	-	-	-	-	-	-	-	11.6	-	16.2	11.2	17.6*	14.7	9.7
304	-	-	-	-	-	-	-	-	-	-	-	10.8	-	15.4	10.4	17.3*	14.2	9.3
312	-	-	-	-	-	-	-	-	-	-	-	10.1	-	14.6	9.6	-	13.5	8.7
320	-	-	-	-	-	-	-	-	-	-	-	9.4	-	13.8	8.9	-	12.7	7.9
328	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3	-	-	12.0	7.3
336	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.7
344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0
352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.4
360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.9

360°																		85%
 169.9 ft +  13.1 ft																		
 	78.7 ft			98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft							1,000 lb											
72	67.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
80	64.5	-	-	57.2	-	-	51.7	-	-	44.8	-	-	-	-	-	-	-	-
88	61.6	-	-	55.1	-	-	49.9	-	-	43.3	-	-	40.6	-	-	-	-	-
96	59.4	-	-	53.1	-	-	48.1	-	-	41.9	-	-	39.3	-	-	34.7	-	-
104	-	-	-	51.5	-	-	46.5	-	-	40.5	-	-	38.1	-	-	33.6	-	-
112	-	-	-	50.2	-	-	44.9	-	-	39.2	-	-	37.0	-	-	32.8	-	-
120	-	40.4	-	-	38.7	-	43.5	-	-	38.0	-	-	35.9	-	-	31.9	-	-
128	-	37.8	-	-	36.1	-	42.1	33.5	-	36.8	-	-	34.8	-	-	31.0	-	-
136	-	-	-	-	33.8	-	40.8	31.5	-	35.9	-	-	33.9	-	-	30.3	-	-
144	-	-	-	-	31.8	-	-	29.4	-	34.9	27.6	-	33.1	-	-	29.6	-	-
152	-	-	-	-	-	-	-	27.8	-	34.1	25.8	-	32.3	26.7	-	28.7	-	-
160	-	-	-	-	-	24.0	-	26.3	-	-	24.0	-	31.5	25.1	-	28.0	23.2	-
168	-	-	-	-	-	22.5	-	25.2	20.3	-	22.7	-	31.0	23.6	-	27.5	21.8	-
176	-	-	-	-	-	-	-	-	18.9	-	21.4	-	30.7	22.2	-	27.0	20.3	-
184	-	-	-	-	-	-	-	-	17.8	-	20.5	15.9	-	21.1	-	26.4	19.0	-
192	-	-	-	-	-	-	-	-	-	-	-	14.8	-	20.1	15.9	26.0	17.9	-
200	-	-	-	-	-	-	-	-	-	-	-	13.8	-	19.3	14.8	-	17.0	-
208	-	-	-	-	-	-	-	-	-	-	-	13.0	-	18.7	13.9	-	16.1	12.0
216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1	-	15.3	11.1
224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.5	-	14.8	10.4
232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.7
240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.1

		196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
		83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft								1,000 lb											
96	30.1	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
104	29.4	-	-		23.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
112	28.9	-	-		23.1	-	-	18.7	-	-	14.8	-	-	-	-	-	-	-	-
120	28.2	-	-		22.6	-	-	18.2	-	-	14.5	-	-	11.2	-	-	-	-	-
128	27.6	-	-		22.2	-	-	18.0	-	-	14.2	-	-	11.0	-	-		7.9	-
136	27.0	-	-		21.7	-	-	17.5	-	-	13.9	-	-	10.9	-	-		7.8	-
144	26.3	-	-		21.2	-	-	17.2	-	-	13.7	-	-	10.8	-	-		7.7	-
152	25.7	-	-		20.9	-	-	16.9	-	-	13.4	-	-	10.5	-	-		7.7	-
160	25.2	-	-		20.4	-	-	16.5	-	-	13.2	-	-	10.4	-	-		7.7	-
168	24.6	20.4	-		20.0	-	-	16.1	-	-	13.1	-	-	10.2	-	-		7.6	-
176	24.1	19.3	-		19.5	16.2	-	15.7	-	-	12.8	-	-	10.0	-	-		7.5	-
184	23.7	18.1	-		19.3	15.3	-	15.4	12.5	-	12.6	-	-	9.9	-	-		7.5	-
192	23.3	17.0	-		19.1	14.4	-	15.2	12.0	-	12.3	-	-	9.7	-	-		7.5	-
200	22.9	16.1	-		18.9	13.6	-	14.9	11.1	-	12.2	-	-	9.5	-	-		7.3	-
208	22.7	15.2	-		18.6	12.7	-	14.7	10.5	-	12.0	-	-	9.4	-	-		7.3	-
216	22.5	14.4	10.6		18.3	11.9	-	14.6	9.8	-	11.9	-	-	9.3	-	-		7.3	-
224	-	13.6	9.8		18.3	11.3	-	14.3	9.1	-	11.8	-	-	9.3	-	-		7.3	-
232	-	12.9	9.1	-	-	10.6	-	14.1	8.4	-	11.7	-	-	9.2	-	-		7.2	-
240	-	12.5	8.4	-	-	9.9	-	13.9	7.9	-	11.7	-	-	9.1	-	-		7.1	-
248	-	-	7.7	-	-	9.3	-	13.8	7.4	-	11.6	-	-	9.0	-	-		7.1	-
256	-	-	7.1	-	-	8.8	-	-	6.8	-	11.5	-	-	8.8	-	-		7.1	-
264	-	-	6.8	-	-	8.5	-	-	6.3	-	11.3	-	-	8.8	-	-		6.9	-
272	-	-	-	-	-	-	-	-	5.9	-	-	-	-	8.8	-	-		6.8	-
280	-	-	-	-	-	-	-	-	5.6	-	-	-	-	8.6	-	-		6.8	-
288	-	-	-	-	-	-	-	-	-	-	-	-	-	8.6	-	-		6.7	-
296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		6.6	-
304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		6.6	-

132,300 lb 176,400 lb 220,500 lb 264,600 lb 308,700 lb 352,800 lb 396,800 lb

360°															85%		
 169.9 ft +  13.1 ft  30° (*  60°)																	
 	98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft				
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°		
ft						1,000 lb											
72	-	-	-	92.5	-	-	-	-	-	-	-	-	-	-	-		
80	101.9	-	-	91.5*	-	-	-	-	-	-	-	-	-	-	-		
88	97.9	-	-	85.2	-	-	81.4*	-	-	-	-	-	-	-	-		
96	94.2	-	-	82.0	-	-	74.9*	-	-	74.7*	-	-	68.6*	-	-		
104	91.2	-	-	79.1	-	-	69.3	-	-	69.4*	-	-	64.8*	-	-		
112	88.7	-	-	76.4	-	-	67.1	-	-	64.2*	-	-	61.3*	-	-		
120	-	72.0	-	74.5	-	-	64.9	-	-	60.7*	-	-	57.6*	-	-		
128	-	66.9	-	72.6	64.6	-	62.9	-	-	57.6	-	-	54.4*	-	-		
136	-	62.9	-	71.1	60.6	-	61.5	56.2	-	55.9	-	-	51.6*	-	-		
144	-	59.5	-	-	56.8	-	60.0	53.7	-	54.7	-	-	48.8*	-	-		
152	-	-	47.6	-	54.1	-	58.9	51.3	-	53.6	48.5	-	46.6	42.4	-		
160	-	-	44.7	-	51.8	-	-	49.1	-	52.6	47.1	-	45.6	41.3	-		
168	-	-	42.2	-	49.3	40.1	-	47.0	-	51.6	45.6	-	44.8	40.2	-		
176	-	-	-	-	-	38.0	-	44.8	36.7	50.8	44.1	-	44.0	39.0	-		
184	-	-	-	-	-	36.3	-	42.5	34.7	-	42.5	-	43.3	38.0	-		
192	-	-	-	-	-	-	-	-	32.7	-	40.9	34.0	42.7	37.0	-		
200	-	-	-	-	-	-	-	-	31.1	-	39.1	32.1	-	36.1	30.8		
208	-	-	-	-	-	-	-	-	29.8	-	37.3	30.5	-	35.1	29.1		
216	-	-	-	-	-	-	-	-	-	-	-	29.2	-	34.0	27.4		
224	-	-	-	-	-	-	-	-	-	-	-	27.8	-	32.4	26.0		
232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.5		
240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.2		

		196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
		83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft		1,000 lb																	
104	59.1*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
112	56.7*	-	-	-	49.3*	-	-	42.5*	-	-	-	-	-	-	-	-	-	-	-
120	54.4*	-	-	-	47.4*	-	-	41.4*	-	-	35.0*	-	-	-	-	-	-	-	-
128	52.1*	-	-	-	45.5*	-	-	40.3*	-	-	34.4*	-	-	28.2*	-	-	22.7*	-	-
136	49.7*	-	-	-	43.6*	-	-	39.1*	-	-	33.9*	-	-	27.9*	-	-	22.3*	-	-
144	47.3*	-	-	-	42.0*	-	-	38.0*	-	-	33.1*	-	-	27.6*	-	-	22.1*	-	-
152	44.9*	-	-	-	40.1*	-	-	36.9*	-	-	32.6*	-	-	27.3*	-	-	21.8*	-	-
160	42.5*	-	-	-	38.3*	-	-	35.4*	-	-	31.9*	-	-	27.0*	-	-	21.5*	-	-
168	40.6*	35.5	-	-	36.6*	-	-	33.9*	-	-	30.9*	-	-	26.6*	-	-	21.2*	-	-
176	39.0*	34.5	-	-	34.9*	29.4	-	32.4*	-	-	29.7*	-	-	26.1*	-	-	20.8*	-	-
184	37.7*	33.6	-	-	33.6*	28.6	-	30.9*	24.5	-	28.6*	-	-	25.6*	-	-	20.5*	-	-
192	36.7*	32.7	-	-	32.3*	27.9	-	29.5*	23.9	-	27.5*	19.3	-	25.0*	-	-	20.2*	-	-
200	36.2	32.0	-	-	31.1*	27.2	-	28.2*	23.2	-	26.5*	19.1	-	24.3*	15.1	-	19.6*	-	-
208	35.8	31.4	-	-	30.1*	26.5	-	27.2*	22.5	-	25.5*	18.8	-	23.6*	14.9	-	19.2*	10.4	-
216	35.3	30.9	26.6	-	29.6*	25.8	-	26.3*	21.9	-	24.5*	18.5	-	23.0*	14.8	-	18.8*	10.4	-
224	-	30.2	25.1	-	29.3*	25.3	23.0	25.2*	21.3	-	23.6*	18.1	-	22.2*	14.6	-	18.4*	10.4	-
232	-	29.4	23.6	-	-	25.0	21.7	24.3*	20.8	-	22.7*	17.8	-	21.4*	14.5	-	18.0*	10.4	-
240	-	28.4	22.3	-	-	24.4	20.3	23.9*	20.4	17.7	21.9*	17.5	-	20.7*	14.4	-	17.6*	10.4	-
248	-	-	21.1	-	-	24.0	19.1	23.7*	20.0	16.8	21.2*	17.1	13.4	20.0*	14.2	-	17.2*	10.4	-
256	-	-	20.0	-	-	23.6	18.1	-	19.6	15.9	20.5*	16.8	13.0	19.2*	14.1	9.7	16.8*	10.4	-
264	-	-	19.0	-	-	22.6	17.0	-	19.3	14.8	20.2*	16.5	12.7	18.5*	13.8	9.7	16.3*	10.4	-
272	-	-	-	-	-	-	16.0	-	19.0	13.8	-	16.2	12.5	18.0*	13.6	9.7	15.9*	10.4	6.0
280	-	-	-	-	-	-	15.0	-	18.4	12.8	-	15.8	12.2	17.7*	13.5	9.5	15.5*	10.4	6.0
288	-	-	-	-	-	-	-	-	12.0	-	15.6	11.5	11.5	17.4*	13.3	9.4	15.2*	10.4	6.0
296	-	-	-	-	-	-	-	-	11.2	-	15.4	10.7	10.7	-	13.2	9.2	15.0*	10.4	6.0
304	-	-	-	-	-	-	-	-	10.5	-	15.0	9.9	9.9	-	13.1	9.1	14.8*	10.4	6.0
312	-	-	-	-	-	-	-	-	-	-	-	9.2	9.2	-	13.0	8.7	-	10.4	6.0
320	-	-	-	-	-	-	-	-	-	-	-	8.5	8.5	-	13.0	8.1	-	10.4	6.0
328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.4	-	10.4	6.0
336	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.7	-	10.3	5.8
344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.2	-	9.9	5.2
352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.7

Basic machine

Equipment carrier

Engine 460-4	MTU; Output 460 kW (625 HP) at 1700 1/min, torque 2900 Nm at 1300 1/min; The engine complies with Euromot 4/Tier 4F. Exhaust system complete stainless steel with SCR catalyser. Fuel tank 232 gallons Diesel (no RME/biodiesel), 25 gallons Ad-Blue tank.
Transmission TC	ZF TC-Tronic; Automated gearbox with integrated torque converter and hydraulic retarder, 12 forward speeds and 2 reverse; Selectable longitudinal lock included in transfer case.
Axles 16 x 8 x 14	16 x 8 x 14; 8 axles, axles 1, 2, 4, 5 driven and equipped with selectable transverse lock, axles 1-4 and 6-8 steered, axle 5 liftable.
Suspension	Hydropneumatic suspension with axle load compensation; Hydraulically lockable; Manual or automatic levelling alternatively.
Steering	Dual circuit hydro semiblock steering with emergency steering pump.
Brakes	Pneumatic dual circuit service brake, acting on all wheels; Disc brakes; Hydraulic retarder integrated into transmission as sustained-action brake; Additional exhaust brake and constant choke valve; Spring-loaded parking brake.
Tires size 385/95 R25 (14.00R25)	Tires size 385/95R25 (14.00R25); Steel rims 9,5-25/1,7 ET70; 170F.
Cab 2880	Type 9.5 ft; Adjustable driver seat with seat heating, armrests and pneumatic suspension; Steering wheel height and tilt adjustable; Co-driver's seat; Power door windows; Tinted glass; Radio-preparation.
Heating engine-dependent	Engine-dependent warm water heating with 12 kW heating power.
Aircondition	Aircondition for carrier cab with 7 kW cooling power.
Drive lights	With low beam, upper beam.
Outriggers	X-4-Point design; 4 outriggers telescopic; Vertical and horizontal movement fully hydraulic; Manual or automatic levelling alternatively; 2 outrigger bases.
Outrigger pads	4 outrigger pads with transport position at outrigger beam.
Outrigger quick connection	Hydraulic bolt extractors and hydraulic and electric quick couplings for fast (dis-) assembly.
Outrigger load indicator	Displayed in LMI crane cab.
Outrigger basis monitoring	Individual monitoring of horizontal stroke; Deviation warning in crane cab.
Cruise control	Automatic speed control including automatic brake control.
Central lubrication	Central auto lube for all lubrication points at carrier.
Electronic immobiliser system	Prevents uncontrolled carrier mobilisation; Incl. 6 ignition keys.
Contour safety marking	Continuous reflective strips on the sides of the chassis and on the rear.

Equipment superstructure

Engine 210-4	MTU; Output 210 kW (286 HP) at 2200 1/min, torque 1150 Nm at 1200 1/min; The engine complies with Euromot 4/Tier 4F. Exhaust system complete stainless steel with SCR catalyser.
Fuel tank	42 gallons Diesel (no RME/biodiesel), 11 gallons Ad-Blue tank.
Telescopic boom HA56	48.2 ft -183.7 ft; Single cylinder telescoping system, automatic telescoping; Attachments for all equipment and extensions; 8 sheaves integrated in boom head for max. capacity of 414,300 lb.
Boom luffing	2 luffing cylinders with automatic lowering brake valve.
Rotary drive	1 slewing gear unit with spring-loaded multi-disc brake; Different operating modes selectable.
H1	Hoist with spring-loaded multi-disc brake; twist prevention for rope; Resolver (hoist rotation indicator).
Counterweight base frame 44,100 lb	44,100 lb (base frame); Self rigging with semiautomatic rigging system, rigging storage on carrier front; Expandable to max. 386,800 lb.
Control system	Enabling 4 simultaneous working movements; Electric pilot controls via 2 two-axis joysticks; Different control modes selectable for hydraulic circuits.
Operator aids	IC-1, with integrated electronic load moment indicator in accordance with EN13000; Color display; Displaying of current operating conditions, load charts, fault indicator; Signal lights indicating LMI-load; Crane data logger.
Working range limiter	Displaying and programmability of the work range limits by IC-1.
Cab 1100	Type 3.60 ft; Tilt infinitely variable 20°; Seat heating; Sliding window in door and rear; Fold-out front window; Extendable side pedestal, foldable front pedestal; Handrails; Tinted safety glass; Pull-down sun visor and light curtains; Radio-preparation.
Heating engine independent	Engine independent Diesel heating system with 5 kW heating power; With timer and remote start.
Aircondition	Aircondition in crane cab with 7 kW cooling power.
Double work floodlight	2 out of crane cab adjustable floodlights, at front support boom base section.
Central lubrication	Central auto lube for all lubrication points at crane.
Anemometer	Removable, to be used with all extensions.

Additional equipment

Carrier

Engine 480-3a MTU; Output 480 kW (653 HP) at 1800 1/min, torque 2800 Nm at 1200 1/min; The engine complies with Euromot 3a/ Tier 3; Exhaust system complete stainless steel, incl. spark arrester. Fuel tank 232 gallons Diesel (no RME/Biodiesel).

Superstructure

Engine 205-3a MTU; Output 205 kW (279 HP) at 2200 1/min, torque 1100 Nm at 1200 1/min; The engine complies with Euromot 3a/Tier 3; Exhaust system complete stainless steel, incl. spark arrester. Fuel tank 92 gallons Diesel (no RME/Biodiesel).

Heavy lift attachment 3 additional sheaves; For total 11 sheaves at boom head; Max. capacity 553,100 lb.

SSL Sideways Superlift; Capacity increasing boom guy support.

2. hoist (H2) 2. hoist; Spring-loaded multi-disc brake; Integrated resolver (hoist rotation indicator); Incl. quick couplings, rope twist prevention and hoist monitoring.

Counterweights AC-GG10 160 352,800 lb = 16 AC-GG à 22,050 lb (AC 350, AC 500-1, AC 500-2, AC 650, AC 700, AC 700-9, AC 1000, AC 1000-9).

Handling

HR Hydraulic winch for reeving assistance; Only together with H2.

IC-1 Plus Smart crane control system for main boom operation enabling higher lifting capacities especially over outriggers. Enables safe use of the full capacity of the crane even in asymmetric outrigger configurations. Outriggers can be positioned independently. Capacity precalculation for +/- 30° slewing angle and radius area. In-cab lift simulation.

Fall-from-height protection system boom base section Rail system as fall-from-height protection at the main boom base section.

Fall-from-height protection system boom base section + SSL Rail system as fall-from-height protection at the main boom base section and SSL.

Fall-from-height protection system WIHI Rail system as fall-from-height protection for the lattice parts WIHI.

Extensions

WIHI Maximum length 295.3 ft (total length of components: 305.1 ft); Luffing jib, complete building set; Increments 19.7 ft; With integrated manual offset section 20° / 40°; 5-sheave und 3-sheave head; Enables configuration WIHI 78.7 ft -295.3 ft, LF 27.6 ft -203.4 ft and HAV 19.7 ft -98.4 ft; H2 required.

Swing-away rooster sheave 1-sheave; Incl. transport storage at boom head HA56; Enables to operate a 2. hook with only 1 line as „fast hook/runner“ at main boom head HA56.

Hook Blocks

Hook block 320-11-24-D 320-11-24-D (7,100 lb); Hook block with ramshorn hook; white with red signal stripes.

Hook block 250-9-24-D 250-9-24-D (5,700 lb); Hook block with ramshorn hook; white with red signal stripes.

Hook block 200-7-24-D 200-7-24-D (5,100 lb); Hook block with ramshorn hook; white with red signal stripes.

Hook block 160-5-24-D 160-5-24-D (4,900 lb); Hook block with ramshorn hook; white with red signal stripes.

Hook block 100-3-24-D 100-3-24-D (4,000 lb); Hook block with ramshorn hook; white with red signal stripes.

Hook block 40-1-24-D 40-1-24-D (1,650 lb); Hook block with ramshorn hook; white with red signal stripes.

Hook 12,5-0-24-E 12,5-0-24-E (1,100 lb); Single hook with vertical swivel; red.

Further additional equipment on request!

Weight data may deviate from posted values based on road / travel configuration, equipment configuration, and component weight tolerances.

August 2017. Product specifications and prices are subject to change without notice or obligation. The photographs and/or drawings in this document are for illustrative purposes only. Refer to the appropriate Operator's Manual for instructions on the proper use of this equipment. Failure to follow the corresponding Operator's Manual when using our equipment or to otherwise act responsibly may result in serious injury or death. The only warranty applicable to our equipment is the standard written warranty applicable to the particular product and sale and Terex makes no other warranty, express or implied. Products and services listed may be trademarks, service marks or trade-names of Terex Corporation and/or its subsidiaries in the USA and other countries. All rights are reserved. Terex, Demag and Above, Ahead, Always are trademarks of or licensed by Terex Corporation or its subsidiaries.

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