

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 76

Luffing Jib No. 135

178,000 lb Crane Counterweight

70,500 lb Carbody Counterweight

360 Degree Rating

**14000
SERIES 3**



LIFTING CAPACITIES: Lifting capacities for various boom lengths, luffing jib lengths, boom-to-luffing jib angles, and boom operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*).

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves, is considered part of main boom load. Weight of luffing jib and 2,825 lb suspended beneath luffing jib point sheaves have been included in capacity determination. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate on a firm uniformly supporting surface with gantry up and bearing turntable level within a tolerance of 1/2 in. in 10 ft, and properly supported. During operation, luffing jib must be maintained at proper boom-to-luffing jib angle shown in table. Refer to Luffing Jib Assembly **No. A18387**, Wire Rope Specification chart **No. 8822-A**, Luffing Jib Raising Procedure chart **No. 8799-A**, Wind Conditions chart **No. 8790-A**, and Counterweight Arrangement chart **No. 9461-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to Operator's Manual for operating guidelines.

MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface with boom and luffing jib within angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8809-A**.



OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block.



BOOM ANGLE: Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 27 ft 2 in. crawlers, 48 in. treads, 10 ft 3 in. retractable gantry, 27 ft live mast, 20 part boom hoist reeving, boom support straps, 8 part luffing jib hoist reeving, two 1-1/2 in. luffing jib pendants and backstays, 178,000 lb crane counterweight, two 26,500 lb carbody counterweights, and four 4,375 lb carbody counterweights.

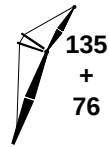
Consult Chart **No. 9496-A** for main luffing jib capacities.

Luffing Jib Position During Operation	
	
Luffing Jib Length Feet	Boom-to-Luffing Jib Angle Degrees
70	140
80 - 90	150
100 - 120	160
130 - 170	168

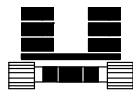
Boom Catwalks Deduct

Deduct 400 lb from capacities when boom catwalks are attached.

Explanation of Symbols



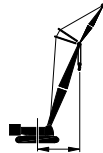
Luffing Jib No. 135
+
Boom No. 76



Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Operating Radius
(see page 1)



Boom Angle
(see page 1)

Explanation of Symbols (continued)



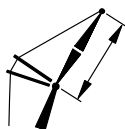
Boom Point Elevation
(see page 1)



Lifting Capacities
(see page 1)



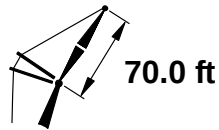
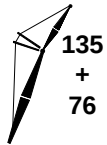
Boom Length

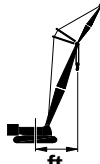
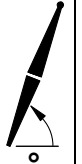
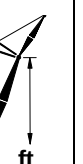
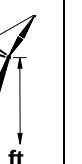


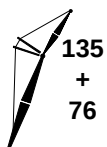
Luffing Jib Length



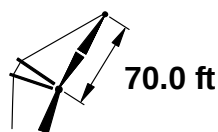
Boom-to-Luffing Jib Angle



											
ft	o	ft	lb	ft	o	ft	lb	ft	o	ft	lb
 65.6 ft				 75.5 ft				 85.3 ft			
15	82.3	72.7	378,000*	16	82.6	82.5	334,100*	17	82.8	92.3	305,200*
16	81.4	72.5	355,200*	17	81.8	82.4	329,800*	18	82.1	92.2	301,200*
17	80.5	72.3	334,500*	18	81.0	82.2	316,000*	19	81.4	92.0	297,500*
18	79.7	72.1	315,900*	19	80.3	82.0	299,200*	20	80.7	91.8	284,200*
19	78.8	71.9	299,100*	20	79.5	81.8	283,900*	22	79.3	91.4	257,500*
20	77.9	71.7	283,800*	22	77.9	81.3	257,200*	24	78.0	90.9	234,900*
22	76.1	71.1	257,100*	24	76.4	80.8	234,700*	26	76.6	90.4	215,600*
24	74.2	70.5	234,500*	26	74.8	80.2	215,300*	28	75.2	89.9	198,700*
26	72.4	69.8	215,200*	28	73.2	79.6	198,300*	30	73.8	89.3	183,400*
28	70.5	69.1	198,000*	30	71.6	78.9	182,900*	32	72.4	88.6	169,800*
								34	70.9	87.9	157,800*



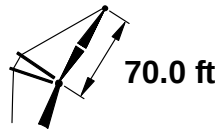
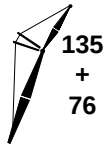
178,000 lb
+
70,500 lb



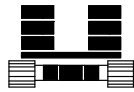
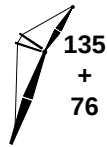
ft	o	ft	lb
95.1 ft			
18	82.9	102.1	293,800*
19	82.3	102.0	290,200*
20	81.7	101.8	284,100*
22	80.5	101.4	257,400*
24	79.2	101.0	234,800*
26	78.0	100.6	215,500*
28	76.8	100.1	198,600*
30	75.5	99.5	183,200*
32	74.2	98.9	169,700*
34	73.0	98.3	157,700*
36	71.7	97.6	147,000*
38	70.4	96.9	137,300*

ft	o	ft	lb
105.0 ft			
20	82.5	111.8	266,700*
22	81.4	111.4	257,000*
24	80.3	111.1	235,100*
26	79.1	110.7	215,800*
28	78.0	110.2	199,000*
30	76.9	109.7	183,600*
32	75.8	109.2	170,100*
34	74.6	108.6	158,100*
36	73.5	108.0	147,400*
38	72.3	107.3	137,700*
40	71.2	106.6	128,200

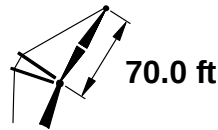
ft	o	ft	lb
114.8 ft			
22	82.1	121.4	250,200*
24	81.1	121.1	234,800*
26	80.1	120.7	215,500*
28	79.1	120.3	198,600*
30	78.0	119.9	183,300*
32	77.0	119.4	169,800*
34	76.0	118.9	157,800*
36	74.9	118.3	147,000*
38	73.9	117.7	137,400*
40	72.9	117.1	128,400
45	70.2	115.3	105,500



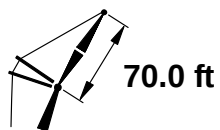
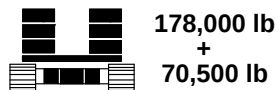
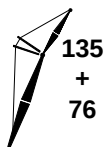
124.7 ft				134.5 ft				144.4 ft			
22	82.7	131.4	234,300*	24	82.4	141.0	217,800*	24	82.9	151.0	196,600*
24	81.8	131.1	225,300*	26	81.6	140.7	209,500*	26	82.1	150.7	189,800*
26	80.9	130.7	215,400*	28	80.7	140.4	198,000*	28	81.3	150.4	183,200*
28	79.9	130.3	198,400*	30	79.8	140.0	182,600*	30	80.5	150.0	177,000*
30	79.0	129.9	183,100*	32	79.0	139.6	169,100*	32	79.7	149.6	169,200*
32	78.1	129.5	169,600*	34	78.1	139.1	157,100*	34	78.9	149.2	157,200*
34	77.1	129.0	157,600*	36	77.2	138.7	146,400*	36	78.1	148.8	146,500*
36	76.2	128.5	146,900*	38	76.3	138.2	136,700*	38	77.3	148.3	136,900*
38	75.2	128.0	137,200*	40	75.4	137.6	128,000*	40	76.5	147.8	128,100*
40	74.3	127.4	128,500*	45	73.2	136.1	105,700	45	74.4	146.4	105,800
45	71.8	125.7	105,700	50	71.0	134.4	88,300	50	72.3	144.8	88,500
								55	70.2	143.1	75,000

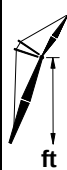


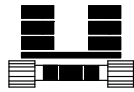
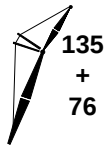
178,000 lb
+
70,500 lb



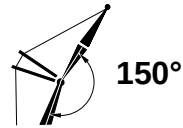
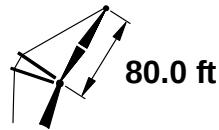
ft	o	ft	lb	ft	o	ft	lb	ft	o	ft	lb
154.2 ft				164.0 ft				173.9 ft			
26	82.6	160.6	181,900*	28	82.4	170.3	168,600*	28	82.8	180.2	162,500*
28	81.9	160.3	175,600*	30	81.7	170.0	163,400*	30	82.1	179.9	157,500*
30	81.1	160.0	169,600*	32	81.0	169.6	158,300*	32	81.5	179.6	152,600*
32	80.4	159.6	163,800*	34	80.3	169.3	153,500*	34	80.8	179.3	147,900*
34	79.6	159.3	156,700*	36	79.5	168.9	145,600*	36	80.1	178.9	143,300*
36	78.9	158.8	146,000*	38	78.8	168.5	136,000*	38	79.5	178.5	135,400*
38	78.1	158.4	136,300*	40	78.1	168.0	127,200*	40	78.8	178.1	126,700*
40	77.3	157.9	127,600*	45	76.3	166.8	105,700	45	77.1	177.0	105,600
45	75.4	156.7	105,800	50	74.5	165.5	88,300	50	75.4	175.7	88,100
50	73.5	155.2	88,400	55	72.7	163.9	74,700	55	73.7	174.2	74,500
55	71.5	153.5	74,900	60	70.8	162.2	63,900	60	72.0	172.6	63,600
								65	70.2	170.8	54,700

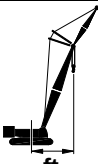
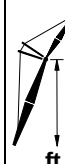


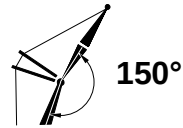
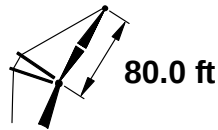
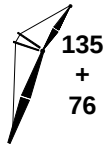
			
ft	o	ft	lb
			
183.7 ft			
30	82.6	189.9	142,500 *
32	81.9	189.6	138,400 *
34	81.3	189.3	134,500 *
36	80.7	188.9	130,700 *
38	80.0	188.6	127,000 *
40	79.4	188.2	123,400 *
45	77.8	187.1	105,500
50	76.2	185.9	88,100
55	74.6	184.5	74,400
60	73.0	183.0	63,500
65	71.3	181.3	54,600



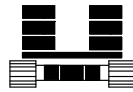
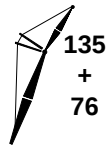
178,000 lb
+
70,500 lb



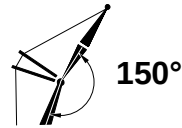
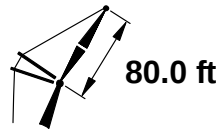
    fto ftlb				    fto ftlb				    fto ftlb			
 65.6 ft				 75.5 ft				 85.3 ft			
15	82.3	72.7	378,000 *	16	82.6	82.5	333,900 *	17	82.8	92.3	305,000 *
16	81.4	72.5	355,200 *	17	81.8	82.4	329,500 *	18	82.1	92.2	301,000 *
17	80.5	72.3	334,400 *	18	81.0	82.2	315,900 *	19	81.4	92.0	297,100 *
18	79.7	72.1	315,600 *	19	80.3	82.0	299,000 *	20	80.7	91.8	284,000 *
19	78.8	71.9	298,700 *	20	79.5	81.8	283,600 *	22	79.3	91.4	257,200 *
20	77.9	71.7	283,300 *	22	77.9	81.3	256,800 *	24	78.0	90.9	234,500 *
22	76.1	71.1	256,500 *	24	76.4	80.8	234,100 *	26	76.6	90.4	215,000 *
24	74.2	70.5	233,700 *	26	74.8	80.2	214,600 *	28	75.2	89.9	197,800 *
26	72.4	69.8	214,200 *	28	73.2	79.6	197,200 *	30	73.8	89.3	182,300 *
28	70.5	69.1	196,700 *	30	71.6	78.9	181,700 *	32	72.4	88.6	168,700 *
30	68.6	68.3	181,200 *	32	69.9	78.1	168,100 *	34	70.9	87.9	156,600 *
32	66.7	67.4	167,500 *	34	68.3	77.3	156,000 *	36	69.5	87.1	145,700 *
34	64.8	66.4	155,400 *	36	66.6	76.4	145,100 *	38	68.0	86.3	136,000 *
				38	64.9	75.4	135,400 *	40	66.6	85.4	126,000



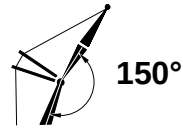
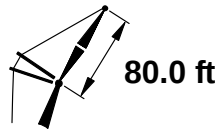
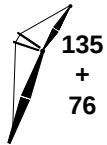
ft	o	ft	lb	ft	o	ft	lb	ft	o	ft	lb
95.1 ft				105.0 ft				114.8 ft			
18	82.9	102.1	293,500*	20	82.5	111.8	266,400*	22	82.1	121.4	250,300*
19	82.3	102.0	289,900*	22	81.4	111.4	257,100*	24	81.1	121.1	234,600*
20	81.7	101.8	284,000*	24	80.3	111.1	234,800*	26	80.1	120.7	215,200*
22	80.5	101.4	257,100*	26	79.1	110.7	215,400*	28	79.1	120.3	198,000*
24	79.2	101.0	234,500*	28	78.0	110.2	198,300*	30	78.0	119.9	182,600*
26	78.0	100.6	215,000*	30	76.9	109.7	182,900*	32	77.0	119.4	169,000*
28	76.8	100.1	197,800*	32	75.8	109.2	169,300*	34	76.0	118.9	156,900*
30	75.5	99.5	182,400*	34	74.6	108.6	157,200*	36	74.9	118.3	146,100*
32	74.2	98.9	168,700*	36	73.5	108.0	146,300*	38	73.9	117.7	136,400*
34	73.0	98.3	156,600*	38	72.3	107.3	136,600*	40	72.9	117.1	127,600*
36	71.7	97.6	145,800*	40	71.2	106.6	127,300	45	70.2	115.3	104,600
38	70.4	96.9	136,100*	45	68.3	104.7	104,300	50	67.5	113.2	87,200
40	69.1	96.1	126,600	50	65.3	102.4	87,000	55	64.8	110.9	73,700
45	65.8	93.9	103,700								

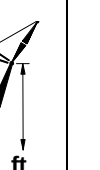
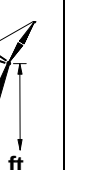


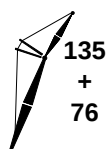
178,000 lb
+
70,500 lb



22	82.7	131.4	234,500*	24	82.4	141.0	217,800*	24	82.9	151.0	196,600*
24	81.8	131.1	225,400*	26	81.6	140.7	209,400*	26	82.1	150.7	189,700*
26	80.9	130.7	215,100*	28	80.7	140.4	197,500*	28	81.3	150.4	183,100*
28	79.9	130.3	198,000*	30	79.8	140.0	182,100*	30	80.5	150.0	176,800*
30	79.0	129.9	182,500*	32	79.0	139.6	168,500*	32	79.7	149.6	168,700*
32	78.1	129.5	168,900*	34	78.1	139.1	156,400*	34	78.9	149.2	156,600*
34	77.1	129.0	156,900*	36	77.2	138.7	145,600*	36	78.1	148.8	145,800*
36	76.2	128.5	146,000*	38	76.3	138.2	135,900*	38	77.3	148.3	136,100*
38	75.2	128.0	136,300*	40	75.4	137.6	127,100*	40	76.5	147.8	127,300*
40	74.3	127.4	127,500*	45	73.2	136.1	104,900	45	74.4	146.4	105,100
45	71.8	125.7	104,800	50	71.0	134.4	87,500	50	72.3	144.8	87,700
50	69.4	123.9	87,400	55	68.7	132.5	73,900	55	70.2	143.1	74,100
55	66.9	121.8	73,900	60	66.4	130.3	63,000	60	68.1	141.1	63,200
60	64.4	119.4	63,000					65	65.9	138.8	54,300

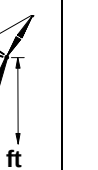


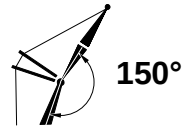
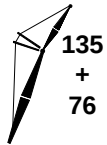
   				   				   			
ft				ft				ft			
°				°				°			
lb				lb				lb			
154.2 ft				164.0 ft				173.9 ft			
26	82.6	160.6	181,900*	28	82.4	170.3	168,400*	28	82.8	180.2	162,400*
28	81.9	160.3	175,500*	30	81.7	170.0	163,200*	30	82.1	179.9	157,300*
30	81.1	160.0	169,400*	32	81.0	169.6	158,100*	32	81.5	179.6	152,400*
32	80.4	159.6	163,600*	34	80.3	169.3	153,200*	34	80.8	179.3	147,700*
34	79.6	159.3	156,100*	36	79.5	168.9	145,000*	36	80.1	178.9	143,100*
36	78.9	158.8	145,300*	38	78.8	168.5	135,300*	38	79.5	178.5	134,800*
38	78.1	158.4	135,600*	40	78.1	168.0	126,500*	40	78.8	178.1	126,000*
40	77.3	157.9	126,800*	45	76.3	166.8	105,100	45	77.1	177.0	105,000
45	75.4	156.7	105,100	50	74.5	165.5	87,600	50	75.4	175.7	87,500
50	73.5	155.2	87,700	55	72.7	163.9	74,000	55	73.7	174.2	73,800
55	71.5	153.5	74,000	60	70.8	162.2	63,000	60	72.0	172.6	62,900
60	69.5	151.7	63,100	65	69.0	160.3	54,100	65	70.2	170.8	53,900
65	67.5	149.6	54,100	70	67.1	158.2	46,600	70	68.4	168.9	46,400
70	65.5	147.4	46,700	75	65.1	155.9	40,200	75	66.6	166.7	40,000
								80	64.8	164.4	34,500

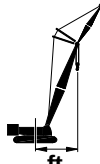
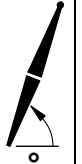
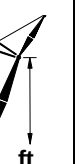
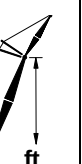


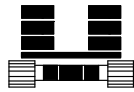
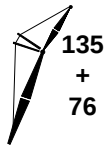
178,000 lb
+
70,500 lb



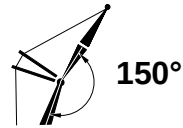
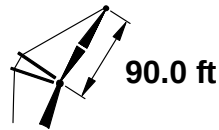
 ft	 °	 ft	 lb
 183.7 ft			
30	82.6	189.9	142,300*
32	81.9	189.6	138,200*
34	81.3	189.3	134,300*
36	80.7	188.9	130,400*
38	80.0	188.6	126,700*
40	79.4	188.2	123,000*
45	77.8	187.1	105,000
50	76.2	185.9	87,500
55	74.6	184.5	73,800
60	73.0	183.0	62,800
65	71.3	181.3	53,800
70	69.7	179.5	46,300
75	68.0	177.5	39,900
80	66.3	175.3	34,500
85	64.5	172.9	29,700



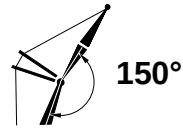
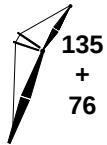
   				   				   			
ft				ft				ft			
°				°				°			
ft				ft				ft			
lb				lb				lb			
 65.6 ft				 75.5 ft				 85.3 ft			
15	82.3	72.7	375,000*	16	82.6	82.5	331,200*	17	82.8	92.3	302,500*
16	81.4	72.5	351,800*	17	81.8	82.4	326,800*	18	82.1	92.2	298,500*
17	80.5	72.3	331,100*	18	81.0	82.2	312,800*	19	81.4	92.0	294,600*
18	79.7	72.1	312,500*	19	80.3	82.0	296,000*	20	80.7	91.8	281,100*
19	78.8	71.9	295,600*	20	79.5	81.8	280,700*	22	79.3	91.4	254,400*
20	77.9	71.7	280,300*	22	77.9	81.3	254,000*	24	78.0	90.9	231,900*
22	76.1	71.1	253,600*	24	76.4	80.8	231,400*	26	76.6	90.4	212,100*
24	74.2	70.5	231,000*	26	74.8	80.2	211,400*	28	75.2	89.9	194,600*
26	72.4	69.8	210,800*	28	73.2	79.6	193,900*	30	73.8	89.3	179,200*
28	70.5	69.1	193,300*	30	71.6	78.9	178,500*	32	72.4	88.6	165,700*
30	68.6	68.3	177,900*	32	69.9	78.1	165,000*	34	70.9	87.9	153,600*
32	66.7	67.4	164,300*	34	68.3	77.3	152,900*	36	69.5	87.1	142,900*
34	64.8	66.4	152,300*	36	66.6	76.4	142,200*	38	68.0	86.3	133,200*
				38	64.9	75.4	132,500*	40	66.6	85.4	123,300

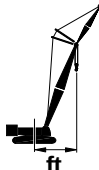
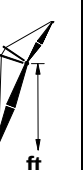
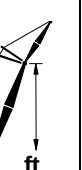


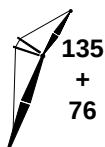
178,000 lb
+
70,500 lb



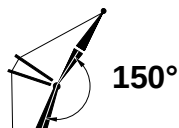
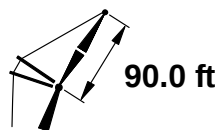
95.1 ft				105.0 ft				114.8 ft			
18	82.9	102.1	291,200*	20	82.5	111.8	264,300*	22	82.1	121.4	247,700*
19	82.3	102.0	287,600*	22	81.4	111.4	254,400*	24	81.1	121.1	232,100*
20	81.7	101.8	281,200*	24	80.3	111.1	232,300*	26	80.1	120.7	212,500*
22	80.5	101.4	254,500*	26	79.1	110.7	212,700*	28	79.1	120.3	195,000*
24	79.2	101.0	231,900*	28	78.0	110.2	195,200*	30	78.0	119.9	179,700*
26	78.0	100.6	212,200*	30	76.9	109.7	179,900*	32	77.0	119.4	166,200*
28	76.8	100.1	194,700*	32	75.8	109.2	166,400*	34	76.0	118.9	154,200*
30	75.5	99.5	179,300*	34	74.6	108.6	154,400*	36	74.9	118.3	143,500*
32	74.2	98.9	165,800*	36	73.5	108.0	143,600*	38	73.9	117.7	133,800*
34	73.0	98.3	153,800*	38	72.3	107.3	134,000*	40	72.9	117.1	125,100*
36	71.7	97.6	143,000*	40	71.2	106.6	124,800	45	70.2	115.3	102,300
38	70.4	96.9	133,400*	45	68.3	104.7	102,000	50	67.5	113.2	85,200
40	69.1	96.1	124,000	50	65.3	102.4	84,900	55	64.8	110.9	71,700
45	65.8	93.9	101,300								



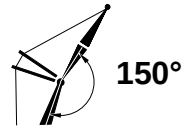
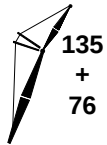
    ft o ft lb				    ft o ft lb				    ft o ft lb			
 124.7 ft				 134.5 ft				 144.4 ft			
22	82.7	131.4	232,000*	24	82.4	141.0	215,500*	24	82.9	151.0	194,400*
24	81.8	131.1	222,900*	26	81.6	140.7	207,100*	26	82.1	150.7	187,500*
26	80.9	130.7	212,500*	28	80.7	140.4	194,600*	28	81.3	150.4	180,900*
28	79.9	130.3	195,000*	30	79.8	140.0	179,300*	30	80.5	150.0	174,600*
30	79.0	129.9	179,700*	32	79.0	139.6	165,800*	32	79.7	149.6	166,000*
32	78.1	129.5	166,200*	34	78.1	139.1	153,800*	34	78.9	149.2	154,000*
34	77.1	129.0	154,200*	36	77.2	138.7	143,100*	36	78.1	148.8	143,300*
36	76.2	128.5	143,400*	38	76.3	138.2	133,400*	38	77.3	148.3	133,600*
38	75.2	128.0	133,800*	40	75.4	137.6	124,700*	40	76.5	147.8	124,900*
40	74.3	127.4	125,100*	45	73.2	136.1	102,700	45	74.4	146.4	103,000
45	71.8	125.7	102,600	50	71.0	134.4	85,500	50	72.3	144.8	85,700
50	69.4	123.9	85,400	55	68.7	132.5	72,000	55	70.2	143.1	72,300
55	66.9	121.8	72,000	60	66.4	130.3	61,200	60	68.1	141.1	61,500
60	64.4	119.4	61,200					65	65.9	138.8	52,600



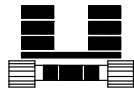
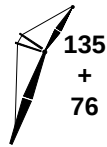
178,000 lb
+
70,500 lb



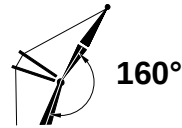
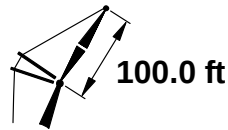
ft	o	ft	lb	ft	o	ft	lb	ft	o	ft	lb
154.2 ft				164.0 ft				173.9 ft			
26	82.6	160.6	179,700*	28	82.4	170.3	166,400*	28	82.8	180.2	160,400*
28	81.9	160.3	173,400*	30	81.7	170.0	161,200*	30	82.1	179.9	155,400*
30	81.1	160.0	167,300*	32	81.0	169.6	156,100*	32	81.5	179.6	150,500*
32	80.4	159.6	161,500*	34	80.3	169.3	151,200*	34	80.8	179.3	145,700*
34	79.6	159.3	153,600*	36	79.5	168.9	142,600*	36	80.1	178.9	141,000*
36	78.9	158.8	142,800*	38	78.8	168.5	132,900*	38	79.5	178.5	132,400*
38	78.1	158.4	133,200*	40	78.1	168.0	124,200*	40	78.8	178.1	123,700*
40	77.3	157.9	124,500*	45	76.3	166.8	103,100	45	77.1	177.0	103,000
45	75.4	156.7	103,000	50	74.5	165.5	85,700	50	75.4	175.7	85,600
50	73.5	155.2	85,700	55	72.7	163.9	72,200	55	73.7	174.2	72,100
55	71.5	153.5	72,200	60	70.8	162.2	61,400	60	72.0	172.6	61,200
60	69.5	151.7	61,400	65	69.0	160.3	52,500	65	70.2	170.8	52,300
65	67.5	149.6	52,500	70	67.1	158.2	45,000	70	68.4	168.9	44,900
70	65.5	147.4	45,100	75	65.1	155.9	38,800	75	66.6	166.7	38,600
								80	64.8	164.4	33,100

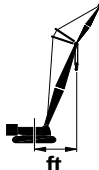
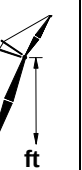


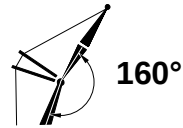
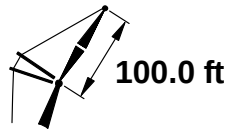
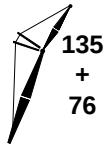
			
			
30	82.6	189.9	140,400 *
32	81.9	189.6	136,400 *
34	81.3	189.3	132,400 *
36	80.7	188.9	128,600 *
38	80.0	188.6	124,800 *
40	79.4	188.2	121,200 *
45	77.8	187.1	103,000
50	76.2	185.9	85,600
55	74.6	184.5	72,000
60	73.0	183.0	61,200
65	71.3	181.3	52,300
70	69.7	179.5	44,800
75	68.0	177.5	38,500
80	66.3	175.3	33,100
85	64.5	172.9	28,400

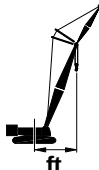
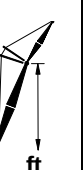
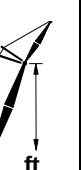


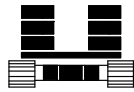
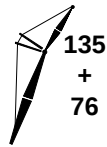
178,000 lb
+
70,500 lb



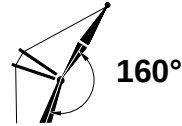
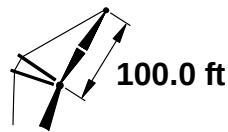
    ft ° ft lb				    ft ° ft lb				    ft ° ft lb			
 65.6 ft				 75.5 ft				 85.3 ft			
15	82.3	72.7	377,500*	16	82.6	82.5	333,000*	17	82.8	92.3	304,200*
16	81.4	72.5	354,100*	17	81.8	82.4	328,500*	18	82.1	92.2	300,000*
17	80.5	72.3	333,100*	18	81.0	82.2	314,700*	19	81.4	92.0	296,100*
18	79.7	72.1	314,200*	19	80.3	82.0	297,700*	20	80.7	91.8	282,800*
19	78.8	71.9	297,200*	20	79.5	81.8	282,200*	22	79.3	91.4	255,800*
20	77.9	71.7	281,700*	22	77.9	81.3	255,200*	24	78.0	90.9	232,900*
22	76.1	71.1	254,600*	24	76.4	80.8	232,300*	26	76.6	90.4	213,200*
24	74.2	70.5	231,600*	26	74.8	80.2	212,300*	28	75.2	89.9	195,300*
26	72.4	69.8	211,400*	28	73.2	79.6	194,400*	30	73.8	89.3	179,700*
28	70.5	69.1	193,500*	30	71.6	78.9	178,800*	32	72.4	88.6	166,000*
30	68.6	68.3	177,800*	32	69.9	78.1	165,000*	34	70.9	87.9	153,700*
32	66.7	67.4	164,000*	34	68.3	77.3	152,800*	36	69.5	87.1	142,800*
34	64.8	66.4	151,800*	36	66.6	76.4	141,800*	38	68.0	86.3	133,000*
36	62.8	65.3	140,800*	38	64.9	75.4	132,000*	40	66.6	85.4	123,200
38	60.8	64.2	130,900*	40	63.2	74.3	121,800	45	62.8	82.8	100,200
40	58.7	62.9	120,100	45	58.8	71.4	98,800	50	58.9	79.9	82,900



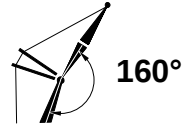
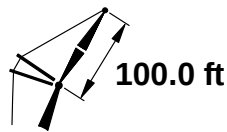
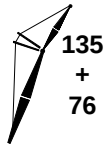
   				   				   			
ft				ft				ft			
°				°				°			
lb				lb				lb			
 95.1 ft				 105.0 ft				 114.8 ft			
18	82.9	102.1	292,600*	20	82.5	111.8	265,500*	22	82.1	121.4	249,700*
19	82.3	102.0	288,900*	22	81.4	111.4	256,400*	24	81.1	121.1	233,500*
20	81.7	101.8	282,900*	24	80.3	111.1	233,600*	26	80.1	120.7	214,000*
22	80.5	101.4	255,900*	26	79.1	110.7	214,000*	28	79.1	120.3	196,200*
24	79.2	101.0	233,100*	28	78.0	110.2	196,300*	30	78.0	119.9	180,700*
26	78.0	100.6	213,400*	30	76.9	109.7	180,700*	32	77.0	119.4	166,900*
28	76.8	100.1	195,600*	32	75.8	109.2	167,000*	34	76.0	118.9	154,800*
30	75.5	99.5	180,000*	34	74.6	108.6	154,800*	36	74.9	118.3	143,900*
32	74.2	98.9	166,300*	36	73.5	108.0	143,900*	38	73.9	117.7	134,100*
34	73.0	98.3	154,100*	38	72.3	107.3	134,100*	40	72.9	117.1	125,200*
36	71.7	97.6	143,200*	40	71.2	106.6	125,000	45	70.2	115.3	102,400
38	70.4	96.9	133,300*	45	68.3	104.7	101,900	50	67.5	113.2	84,900
40	69.1	96.1	124,100	50	65.3	102.4	84,500	55	64.8	110.9	71,300
45	65.8	93.9	101,000	55	62.2	99.8	71,000	60	61.9	108.3	60,400
50	62.5	91.3	83,700	60	59.0	96.8	60,100	65	59.0	105.3	51,500
55	59.0	88.3	70,100								

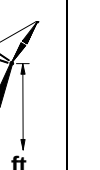
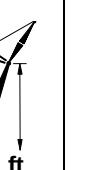
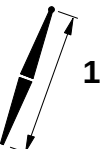


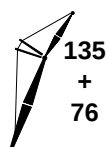
178,000 lb
+
70,500 lb



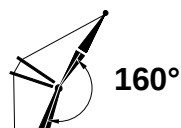
22	82.7	131.4	233,900*	24	82.4	141.0	217,200*	24	82.9	151.0	196,000*
24	81.8	131.1	224,700*	26	81.6	140.7	208,700*	26	82.1	150.7	189,000*
26	80.9	130.7	214,000*	28	80.7	140.4	196,000*	28	81.3	150.4	182,300*
28	79.9	130.3	196,300*	30	79.8	140.0	180,500*	30	80.5	150.0	175,900*
30	79.0	129.9	180,700*	32	79.0	139.6	166,800*	32	79.7	149.6	167,000*
32	78.1	129.5	167,000*	34	78.1	139.1	154,600*	34	78.9	149.2	154,900*
34	77.1	129.0	154,900*	36	77.2	138.7	143,700*	36	78.1	148.8	144,000*
36	76.2	128.5	144,000*	38	76.3	138.2	133,900*	38	77.3	148.3	134,200*
38	75.2	128.0	134,200*	40	75.4	137.6	125,000*	40	76.5	147.8	125,300*
40	74.3	127.4	125,300*	45	73.2	136.1	103,000	45	74.4	146.4	103,400
45	71.8	125.7	102,800	50	71.0	134.4	85,500	50	72.3	144.8	85,800
50	69.4	123.9	85,300	55	68.7	132.5	71,800	55	70.2	143.1	72,200
55	66.9	121.8	71,700	60	66.4	130.3	60,900	60	68.1	141.1	61,200
60	64.4	119.4	60,800	65	64.0	127.9	51,900	65	65.9	138.8	52,200
65	61.8	116.7	51,800	70	61.6	125.2	44,400	70	63.7	136.4	44,700
70	59.1	113.8	44,300	75	59.1	122.3	38,000	75	61.4	133.7	38,400
								80	59.1	130.7	32,900



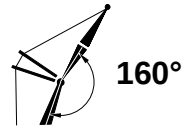
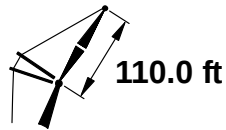
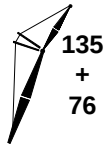
   				   				   			
 154.2 ft				 164.0 ft				 173.9 ft			
26	82.6	160.6	181,200*	28	82.4	170.3	167,700*	28	82.8	180.2	161,600*
28	81.9	160.3	174,700*	30	81.7	170.0	162,400*	30	82.1	179.9	156,500*
30	81.1	160.0	168,600*	32	81.0	169.6	157,200*	32	81.5	179.6	151,500*
32	80.4	159.6	162,700*	34	80.3	169.3	152,300*	34	80.8	179.3	146,700*
34	79.6	159.3	154,500*	36	79.5	168.9	143,400*	36	80.1	178.9	141,900*
36	78.9	158.8	143,600*	38	78.8	168.5	133,600*	38	79.5	178.5	133,100*
38	78.1	158.4	133,800*	40	78.1	168.0	124,800*	40	78.8	178.1	124,300*
40	77.3	157.9	125,000*	45	76.3	166.8	103,500	45	77.1	177.0	103,600
45	75.4	156.7	103,500	50	74.5	165.5	86,000	50	75.4	175.7	85,900
50	73.5	155.2	85,900	55	72.7	163.9	72,200	55	73.7	174.2	72,200
55	71.5	153.5	72,200	60	70.8	162.2	61,200	60	72.0	172.6	61,100
60	69.5	151.7	61,200	65	69.0	160.3	52,200	65	70.2	170.8	52,100
65	67.5	149.6	52,200	70	67.1	158.2	44,700	70	68.4	168.9	44,600
70	65.5	147.4	44,700	75	65.1	155.9	38,300	75	66.6	166.7	38,200
75	63.4	144.9	38,300	80	63.2	153.4	32,800	80	64.8	164.4	32,700
80	61.3	142.2	32,800	85	61.2	150.7	28,100	85	63.0	161.9	27,900
85	59.2	139.2	28,100	90	59.2	147.7	23,900	90	61.1	159.1	23,500
				95	57.1	144.5	19,700	95	59.2	156.2	19,300
								100	57.2	153.0	15,500



178,000 lb
+
70,500 lb



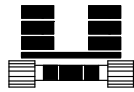
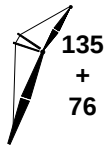
30	82.6	189.9	141,500*
32	81.9	189.6	137,400*
34	81.3	189.3	133,400*
36	80.7	188.9	129,500*
38	80.0	188.6	125,700*
40	79.4	188.2	122,000*
45	77.8	187.1	103,600
50	76.2	185.9	85,900
55	74.6	184.5	72,200
60	73.0	183.0	61,200
65	71.3	181.3	52,100
70	69.7	179.5	44,600
75	68.0	177.5	38,200
80	66.3	175.3	32,700
85	64.5	172.9	27,900
90	62.8	170.4	23,300
95	61.0	167.6	19,100
100	59.2	164.7	15,300
105	57.4	161.5	11,900



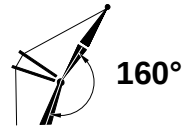
15	82.3	72.7	375,200*
16	81.4	72.5	351,800*
17	80.5	72.3	330,900*
18	79.7	72.1	312,000*
19	78.8	71.9	295,000*
20	77.9	71.7	279,600*
22	76.1	71.1	252,600*
24	74.2	70.5	229,500*
26	72.4	69.8	208,900*
28	70.5	69.1	191,100*
30	68.6	68.3	175,500*
32	66.7	67.4	161,700*
34	64.8	66.4	149,500*
36	62.8	65.3	138,600*
38	60.8	64.2	128,800*
40	58.7	62.9	118,000

16	82.6	82.5	330,700*
17	81.8	82.4	326,200*
18	81.0	82.2	312,600*
19	80.3	82.0	295,700*
20	79.5	81.8	280,200*
22	77.9	81.3	253,200*
24	76.4	80.8	230,400*
26	74.8	80.2	209,900*
28	73.2	79.6	192,100*
30	71.6	78.9	176,600*
32	69.9	78.1	162,900*
34	68.3	77.3	150,700*
36	66.6	76.4	139,800*
38	64.9	75.4	130,000*
40	63.2	74.3	119,800
45	58.8	71.4	97,000

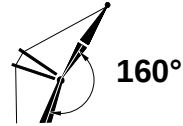
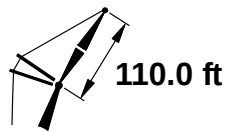
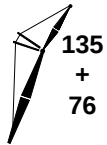
17	82.8	92.3	302,000*
18	82.1	92.2	297,900*
19	81.4	92.0	293,900*
20	80.7	91.8	280,900*
22	79.3	91.4	253,900*
24	78.0	90.9	231,100*
26	76.6	90.4	210,900*
28	75.2	89.9	193,100*
30	73.8	89.3	177,600*
32	72.4	88.6	163,900*
34	70.9	87.9	151,700*
36	69.5	87.1	140,900*
38	68.0	86.3	131,100*
40	66.6	85.4	121,300
45	62.8	82.8	98,400
50	58.9	79.9	81,200

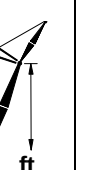
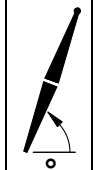
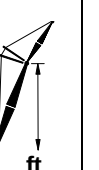
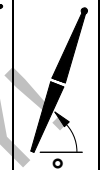
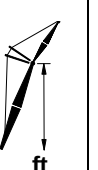


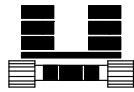
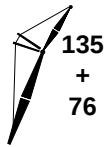
178,000 lb
+
70,500 lb



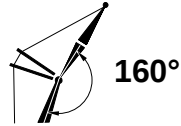
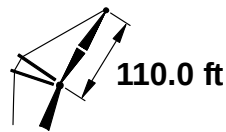
ft	o	ft	lb	ft	o	ft	lb	ft	o	ft	lb
18	82.9	102.1	290,600*	20	82.5	111.8	263,700*	22	82.1	121.4	247,400*
19	82.3	102.0	286,900*	22	81.4	111.4	254,000*	24	81.1	121.1	231,900*
20	81.7	101.8	281,000*	24	80.3	111.1	231,900*	26	80.1	120.7	211,900*
22	80.5	101.4	254,100*	26	79.1	110.7	212,000*	28	79.1	120.3	194,200*
24	79.2	101.0	231,400*	28	78.0	110.2	194,300*	30	78.0	119.9	178,800*
26	78.0	100.6	211,200*	30	76.9	109.7	178,800*	32	77.0	119.4	165,100*
28	76.8	100.1	193,500*	32	75.8	109.2	165,100*	34	76.0	118.9	153,000*
30	75.5	99.5	178,000*	34	74.6	108.6	153,000*	36	74.9	118.3	142,100*
32	74.2	98.9	164,300*	36	73.5	108.0	142,100*	38	73.9	117.7	132,400*
34	73.0	98.3	152,200*	38	72.3	107.3	132,400*	40	72.9	117.1	123,500*
36	71.7	97.6	141,300*	40	71.2	106.6	123,300	45	70.2	115.3	100,800
38	70.4	96.9	131,500*	45	68.3	104.7	100,300	50	67.5	113.2	83,500
40	69.1	96.1	122,300	50	65.3	102.4	83,100	55	64.8	110.9	70,000
45	65.8	93.9	99,400	55	62.2	99.8	69,600	60	61.9	108.3	59,200
50	62.5	91.3	82,100	60	59.0	96.8	58,800	65	59.0	105.3	50,300
55	59.0	88.3	68,700								

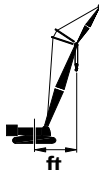
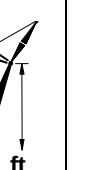
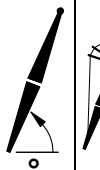
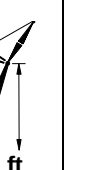
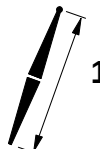
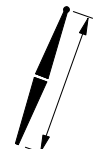


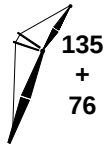
   				   				   			
124.7 ft				134.5 ft				144.4 ft			
22	82.7	131.4	231,700*	24	82.4	141.0	215,100*	24	82.9	151.0	194,000*
24	81.8	131.1	222,500*	26	81.6	140.7	206,600*	26	82.1	150.7	187,000*
26	80.9	130.7	212,000*	28	80.7	140.4	194,100*	28	81.3	150.4	180,300*
28	79.9	130.3	194,400*	30	79.8	140.0	178,600*	30	80.5	150.0	173,900*
30	79.0	129.9	178,900*	32	79.0	139.6	165,000*	32	79.7	149.6	165,300*
32	78.1	129.5	165,200*	34	78.1	139.1	152,900*	34	78.9	149.2	153,200*
34	77.1	129.0	153,100*	36	77.2	138.7	142,000*	36	78.1	148.8	142,400*
36	76.2	128.5	142,300*	38	76.3	138.2	132,300*	38	77.3	148.3	132,600*
38	75.2	128.0	132,500*	40	75.4	137.6	123,500*	40	76.5	147.8	123,800*
40	74.3	127.4	123,700*	45	73.2	136.1	101,600	45	74.4	146.4	101,900
45	71.8	125.7	101,300	50	71.0	134.4	84,200	50	72.3	144.8	84,500
50	69.4	123.9	83,900	55	68.7	132.5	70,600	55	70.2	143.1	71,000
55	66.9	121.8	70,400	60	66.4	130.3	59,700	60	68.1	141.1	60,100
60	64.4	119.4	59,500	65	64.0	127.9	50,800	65	65.9	138.8	51,200
65	61.8	116.7	50,600	70	61.6	125.2	43,300	70	63.7	136.4	43,700
70	59.1	113.8	43,200	75	59.1	122.3	37,000	75	61.4	133.7	37,400
								80	59.1	130.7	32,000



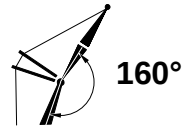
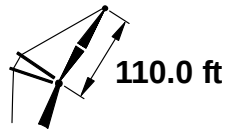
178,000 lb
+
70,500 lb



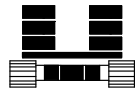
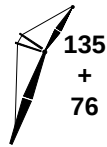
    ft o ft lb				    ft o ft lb				    ft o ft lb			
 154.2 ft				 164.0 ft				 173.9 ft			
26	82.6	160.6	179,300*	28	82.4	170.3	165,900*	28	82.8	180.2	159,900*
28	81.9	160.3	172,800*	30	81.7	170.0	160,600*	30	82.1	179.9	154,800*
30	81.1	160.0	166,700*	32	81.0	169.6	155,400*	32	81.5	179.6	149,800*
32	80.4	159.6	160,800*	34	80.3	169.3	150,500*	34	80.8	179.3	145,000*
34	79.6	159.3	152,800*	36	79.5	168.9	141,800*	36	80.1	178.9	140,100*
36	78.9	158.8	142,000*	38	78.8	168.5	132,100*	38	79.5	178.5	131,600*
38	78.1	158.4	132,300*	40	78.1	168.0	123,300*	40	78.8	178.1	122,800*
40	77.3	157.9	123,500*	45	76.3	166.8	102,200	45	77.1	177.0	102,200
45	75.4	156.7	102,100	50	74.5	165.5	84,700	50	75.4	175.7	84,700
50	73.5	155.2	84,600	55	72.7	163.9	71,100	55	73.7	174.2	71,000
55	71.5	153.5	71,000	60	70.8	162.2	60,200	60	72.0	172.6	60,100
60	69.5	151.7	60,100	65	69.0	160.3	51,200	65	70.2	170.8	51,100
65	67.5	149.6	51,200	70	67.1	158.2	43,700	70	68.4	168.9	43,600
70	65.5	147.4	43,700	75	65.1	155.9	37,400	75	66.6	166.7	37,200
75	63.4	144.9	37,400	80	63.2	153.4	31,900	80	64.8	164.4	31,800
80	61.3	142.2	31,900	85	61.2	150.7	27,200	85	63.0	161.9	27,100
85	59.2	139.2	27,200	90	59.2	147.7	22,900	90	61.1	159.1	22,500
				95	57.1	144.5	18,600	95	59.2	156.2	18,200
								100	57.2	153.0	14,500



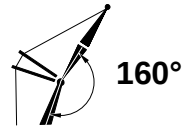
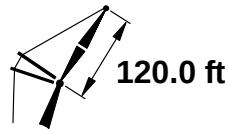
178,000 lb
+
70,500 lb



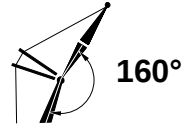
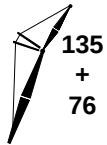
30	82.6	189.9	139,900 *	
32	81.9	189.6	135,700 *	
34	81.3	189.3	131,700 *	
36	80.7	188.9	127,800 *	
38	80.0	188.6	124,000 *	
40	79.4	188.2	120,300 *	
45	77.8	187.1	102,300	
50	76.2	185.9	84,800	
55	74.6	184.5	71,100	
60	73.0	183.0	60,100	
65	71.3	181.3	51,100	
70	69.7	179.5	43,600	
75	68.0	177.5	37,300	
80	66.3	175.3	31,800	
85	64.5	172.9	27,000	
90	62.8	170.4	22,300	
95	61.0	167.6	18,100	
100	59.2	164.7	14,300	
105	57.4	161.5	11,000	

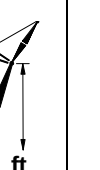
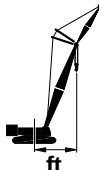
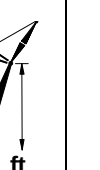
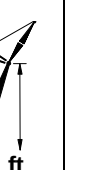
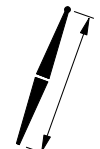


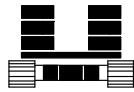
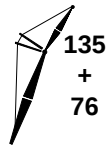
178,000 lb
+
70,500 lb



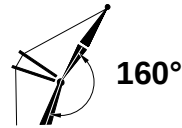
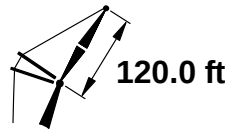
ft	o	ft	lb
15	82.3	72.7	371,600*
16	81.4	72.5	348,300*
17	80.5	72.3	327,500*
18	79.7	72.1	308,700*
19	78.8	71.9	291,800*
20	77.9	71.7	276,400*
22	76.1	71.1	249,300*
24	74.2	70.5	225,400*
26	72.4	69.8	204,900*
28	70.5	69.1	187,200*
30	68.6	68.3	171,700*
32	66.7	67.4	158,000*
34	64.8	66.4	145,800*
36	62.8	65.3	134,900*
38	60.8	64.2	125,100*
40	58.7	62.9	114,500
16	82.6	82.5	327,400*
17	81.8	82.4	322,900*
18	81.0	82.2	309,400*
19	80.3	82.0	292,500*
20	79.5	81.8	277,100*
22	77.9	81.3	250,200*
24	76.4	80.8	226,600*
26	74.8	80.2	206,100*
28	73.2	79.6	188,400*
30	71.6	78.9	172,900*
32	69.9	78.1	159,300*
34	68.3	77.3	147,100*
36	66.6	76.4	136,300*
38	64.9	75.4	126,500*
40	63.2	74.3	116,600
45	58.8	71.4	94,000
17	82.8	92.3	299,000*
18	82.1	92.2	294,800*
19	81.4	92.0	290,800*
20	80.7	91.8	277,900*
22	79.3	91.4	251,000*
24	78.0	90.9	227,600*
26	76.6	90.4	207,200*
28	75.2	89.9	189,600*
30	73.8	89.3	174,100*
32	72.4	88.6	160,500*
34	70.9	87.9	148,400*
36	69.5	87.1	137,500*
38	68.0	86.3	127,800*
40	66.6	85.4	118,200
45	62.8	82.8	95,500
50	58.9	79.9	78,500



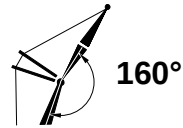
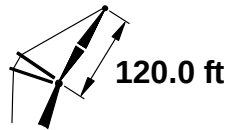
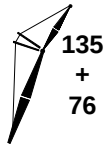
   				   				   			
ft				ft				ft			
°				°				°			
lb				lb				lb			
 95.1 ft				 105.0 ft				 114.8 ft			
18	82.9	102.1	287,700*	20	82.5	111.8	261,000*	22	82.1	121.4	244,200*
19	82.3	102.0	284,000*	22	81.4	111.4	250,800*	24	81.1	121.1	228,900*
20	81.7	101.8	278,100*	24	80.3	111.1	228,900*	26	80.1	120.7	208,500*
22	80.5	101.4	251,300*	26	79.1	110.7	208,500*	28	79.1	120.3	190,900*
24	79.2	101.0	228,100*	28	78.0	110.2	190,900*	30	78.0	119.9	175,500*
26	78.0	100.6	207,700*	30	76.9	109.7	175,500*	32	77.0	119.4	162,000*
28	76.8	100.1	190,000*	32	75.8	109.2	161,900*	34	76.0	118.9	149,900*
30	75.5	99.5	174,600*	34	74.6	108.6	149,800*	36	74.9	118.3	139,100*
32	74.2	98.9	161,000*	36	73.5	108.0	139,000*	38	73.9	117.7	129,400*
34	73.0	98.3	148,900*	38	72.3	107.3	129,300*	40	72.9	117.1	120,600*
36	71.7	97.6	138,100*	40	71.2	106.6	120,400	45	70.2	115.3	98,300
38	70.4	96.9	128,300*	45	68.3	104.7	97,700	50	67.5	113.2	81,100
40	69.1	96.1	119,300	50	65.3	102.4	80,500	55	64.8	110.9	67,700
45	65.8	93.9	96,600	55	62.2	99.8	67,200	60	61.9	108.3	56,900
50	62.5	91.3	79,500	60	59.0	96.8	56,400	65	59.0	105.3	48,100
55	59.0	88.3	66,100								

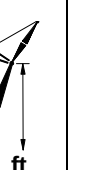
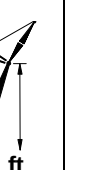
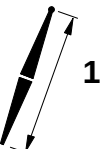


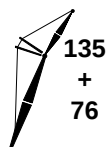
178,000 lb
+
70,500 lb



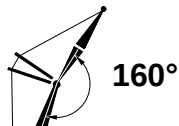
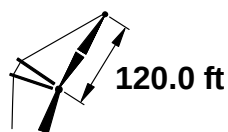
ft	o	ft	lb	ft	o	ft	lb	ft	o	ft	lb
124.7 ft				134.5 ft				144.4 ft			
22	82.7	131.4	228,800*	24	82.4	141.0	212,200*	24	82.9	151.0	191,300*
24	81.8	131.1	219,500*	26	81.6	140.7	203,700*	26	82.1	150.7	184,300*
26	80.9	130.7	208,700*	28	80.7	140.4	190,900*	28	81.3	150.4	177,600*
28	79.9	130.3	191,100*	30	79.8	140.0	175,500*	30	80.5	150.0	171,200*
30	79.0	129.9	175,700*	32	79.0	139.6	162,000*	32	79.7	149.6	162,300*
32	78.1	129.5	162,200*	34	78.1	139.1	149,900*	34	78.9	149.2	150,300*
34	77.1	129.0	150,100*	36	77.2	138.7	139,100*	36	78.1	148.8	139,500*
36	76.2	128.5	139,300*	38	76.3	138.2	129,400*	38	77.3	148.3	129,800*
38	75.2	128.0	129,600*	40	75.4	137.6	120,700*	40	76.5	147.8	121,100*
40	74.3	127.4	120,800*	45	73.2	136.1	99,100	45	74.4	146.4	99,500
45	71.8	125.7	98,800	50	71.0	134.4	81,800	50	72.3	144.8	82,300
50	69.4	123.9	81,600	55	68.7	132.5	68,400	55	70.2	143.1	68,800
55	66.9	121.8	68,100	60	66.4	130.3	57,600	60	68.1	141.1	58,000
60	64.4	119.4	57,400	65	64.0	127.9	48,700	65	65.9	138.8	49,100
65	61.8	116.7	48,500	70	61.6	125.2	41,300	70	63.7	136.4	41,700
70	59.1	113.8	41,200	75	59.1	122.3	35,100	75	61.4	133.7	35,500
								80	59.1	130.7	30,100

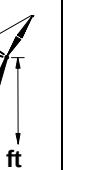


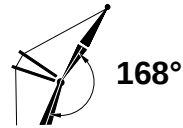
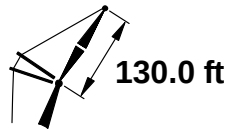
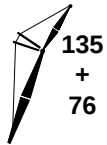
   				   				   			
 154.2 ft				 164.0 ft				 173.9 ft			
26	82.6	160.6	176,600*	28	82.4	170.3	163,400*	28	82.8	180.2	157,400*
28	81.9	160.3	170,200*	30	81.7	170.0	158,000*	30	82.1	179.9	152,300*
30	81.1	160.0	164,000*	32	81.0	169.6	152,900*	32	81.5	179.6	147,300*
32	80.4	159.6	158,100*	34	80.3	169.3	147,900*	34	80.8	179.3	142,500*
34	79.6	159.3	150,000*	36	79.5	168.9	139,100*	36	80.1	178.9	137,600*
36	78.9	158.8	139,200*	38	78.8	168.5	129,400*	38	79.5	178.5	129,000*
38	78.1	158.4	129,500*	40	78.1	168.0	120,600*	40	78.8	178.1	120,200*
40	77.3	157.9	120,800*	45	76.3	166.8	99,900	45	77.1	177.0	99,900
45	75.4	156.7	99,700	50	74.5	165.5	82,500	50	75.4	175.7	82,600
50	73.5	155.2	82,400	55	72.7	163.9	69,000	55	73.7	174.2	69,000
55	71.5	153.5	68,900	60	70.8	162.2	58,200	60	72.0	172.6	58,100
60	69.5	151.7	58,100	65	69.0	160.3	49,300	65	70.2	170.8	49,200
65	67.5	149.6	49,200	70	67.1	158.2	41,800	70	68.4	168.9	41,800
70	65.5	147.4	41,800	75	65.1	155.9	35,500	75	66.6	166.7	35,500
75	63.4	144.9	35,500	80	63.2	153.4	30,100	80	64.8	164.4	30,000
80	61.3	142.2	30,100	85	61.2	150.7	25,300	85	63.0	161.9	24,900
85	59.2	139.2	25,400	90	59.2	147.7	20,600	90	61.1	159.1	20,200
				95	57.1	144.5	16,400	95	59.2	156.2	16,100
								100	57.2	153.0	12,300

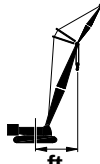
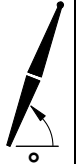
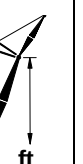
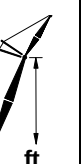


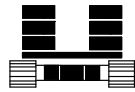
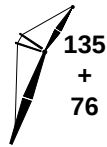
178,000 lb
+
70,500 lb



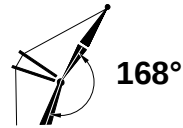
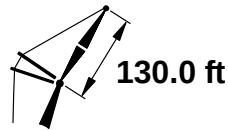
			
ft	o	ft	lb
 183.7 ft			
30	82.6	189.9	137,500*
32	81.9	189.6	133,400*
34	81.3	189.3	129,400*
36	80.7	188.9	125,500*
38	80.0	188.6	121,600*
40	79.4	188.2	117,900*
45	77.8	187.1	100,000
50	76.2	185.9	82,600
55	74.6	184.5	69,100
60	73.0	183.0	58,200
65	71.3	181.3	49,300
70	69.7	179.5	41,800
75	68.0	177.5	35,500
80	66.3	175.3	30,100
85	64.5	172.9	24,800
90	62.8	170.4	20,100
95	61.0	167.6	16,000
100	59.2	164.7	12,200
105	57.4	161.5	8,900

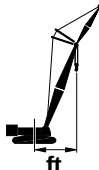
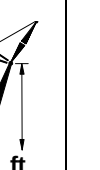
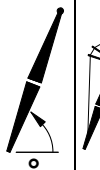
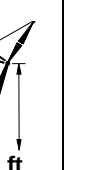


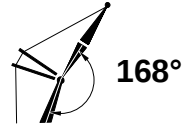
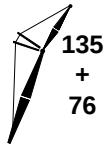
   				   				   			
ft				ft				ft			
°				°				°			
lb				lb				lb			
 65.6 ft				 75.5 ft				 85.3 ft			
15	82.3	72.7	376,400*	16	82.6	82.5	331,500*	17	82.8	92.3	302,700*
16	81.4	72.5	352,700*	17	81.8	82.4	326,900*	18	82.1	92.2	298,400*
17	80.5	72.3	331,400*	18	81.0	82.2	313,200*	19	81.4	92.0	294,300*
18	79.7	72.1	312,400*	19	80.3	82.0	296,000*	20	80.7	91.8	281,300*
19	78.8	71.9	295,100*	20	79.5	81.8	280,400*	22	79.3	91.4	253,900*
20	77.9	71.7	279,400*	22	77.9	81.3	253,000*	24	78.0	90.9	230,900*
22	76.1	71.1	252,000*	24	76.4	80.8	229,700*	26	76.6	90.4	210,200*
24	74.2	70.5	228,300*	26	74.8	80.2	208,800*	28	75.2	89.9	192,100*
26	72.4	69.8	207,300*	28	73.2	79.6	190,700*	30	73.8	89.3	176,300*
28	70.5	69.1	189,200*	30	71.6	78.9	174,900*	32	72.4	88.6	162,400*
30	68.6	68.3	173,300*	32	69.9	78.1	160,900*	34	70.9	87.9	150,000*
32	66.7	67.4	159,300*	34	68.3	77.3	148,500*	36	69.5	87.1	138,900*
34	64.8	66.4	146,800*	36	66.6	76.4	137,400*	38	68.0	86.3	128,900*
36	62.8	65.3	135,600*	38	64.9	75.4	127,400*	40	66.6	85.4	119,300
38	60.8	64.2	125,600*	40	63.2	74.3	117,400	45	62.8	82.8	96,200
40	58.7	62.9	114,900	45	58.8	71.4	94,300	50	58.9	79.9	78,700
45	53.3	59.3	91,900	50	54.2	67.8	76,800	55	54.8	76.4	65,100

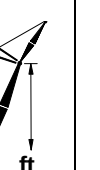
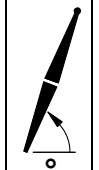
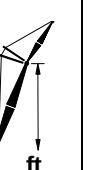
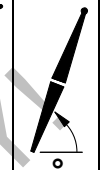
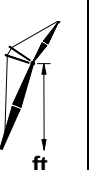


178,000 lb
+
70,500 lb



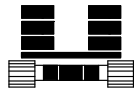
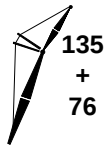
    ft o ft lb				    ft o ft lb				    ft o ft lb			
 95.1 ft				 105.0 ft				 114.8 ft			
18	82.9	102.1	291,200*	20	82.5	111.8	264,000*	22	82.1	121.4	248,300*
19	82.3	102.0	287,400*	22	81.4	111.4	255,000*	24	81.1	121.1	232,100*
20	81.7	101.8	281,600*	24	80.3	111.1	232,000*	26	80.1	120.7	211,900*
22	80.5	101.4	254,400*	26	79.1	110.7	211,800*	28	79.1	120.3	193,900*
24	79.2	101.0	231,300*	28	78.0	110.2	193,800*	30	78.0	119.9	178,200*
26	78.0	100.6	210,800*	30	76.9	109.7	178,000*	32	77.0	119.4	164,300*
28	76.8	100.1	192,800*	32	75.8	109.2	164,100*	34	76.0	118.9	152,000*
30	75.5	99.5	177,000*	34	74.6	108.6	151,800*	36	74.9	118.3	141,000*
32	74.2	98.9	163,100*	36	73.5	108.0	140,800*	38	73.9	117.7	131,100*
34	73.0	98.3	150,700*	38	72.3	107.3	130,800*	40	72.9	117.1	122,100*
36	71.7	97.6	139,700*	40	71.2	106.6	121,800*	45	70.2	115.3	99,400
38	70.4	96.9	129,700*	45	68.3	104.7	98,700	50	67.5	113.2	81,900
40	69.1	96.1	120,700	50	65.3	102.4	81,200	55	64.8	110.9	68,200
45	65.8	93.9	97,500	55	62.2	99.8	67,500	60	61.9	108.3	57,200
50	62.5	91.3	80,000	60	59.0	96.8	56,600	65	59.0	105.3	48,200
55	59.0	88.3	66,300	65	55.7	93.5	47,600	70	56.1	102.0	40,600
60	55.3	84.9	55,300	70	52.3	89.7	40,000	75	52.9	98.3	34,200
65	51.5	81.0	46,300								



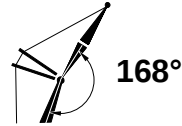
   				   				   			
124.7 ft				134.5 ft				144.4 ft			
22	82.7	131.4	232,600*	24	82.4	141.0	215,800*	24	82.9	151.0	194,700*
24	81.8	131.1	223,200*	26	81.6	140.7	207,100*	26	82.1	150.7	187,600*
26	80.9	130.7	212,200*	28	80.7	140.4	194,100*	28	81.3	150.4	180,700*
28	79.9	130.3	194,200*	30	79.8	140.0	178,400*	30	80.5	150.0	174,200*
30	79.0	129.9	178,500*	32	79.0	139.6	164,500*	32	79.7	149.6	165,000*
32	78.1	129.5	164,600*	34	78.1	139.1	152,200*	34	78.9	149.2	152,700*
34	77.1	129.0	152,300*	36	77.2	138.7	141,200*	36	78.1	148.8	141,700*
36	76.2	128.5	141,300*	38	76.3	138.2	131,300*	38	77.3	148.3	131,800*
38	75.2	128.0	131,400*	40	75.4	137.6	122,400*	40	76.5	147.8	122,900*
40	74.3	127.4	122,400*	45	73.2	136.1	100,500	45	74.4	146.4	101,000
45	71.8	125.7	100,100	50	71.0	134.4	82,900	50	72.3	144.8	83,400
50	69.4	123.9	82,500	55	68.7	132.5	69,100	55	70.2	143.1	69,700
55	66.9	121.8	68,800	60	66.4	130.3	58,100	60	68.1	141.1	58,600
60	64.4	119.4	57,800	65	64.0	127.9	49,000	65	65.9	138.8	49,600
65	61.8	116.7	48,700	70	61.6	125.2	41,500	70	63.7	136.4	42,000
70	59.1	113.8	41,200	75	59.1	122.3	35,100	75	61.4	133.7	35,600
75	56.3	110.5	34,800	80	56.6	119.0	29,600	80	59.1	130.7	30,100
80	53.5	106.8	29,300	85	53.9	115.4	24,800	85	56.8	127.5	25,300
				90	51.2	111.4	20,100	90	54.3	124.0	20,600
								95	51.8	120.1	16,300

14000 S-3

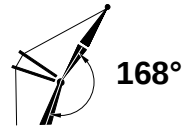
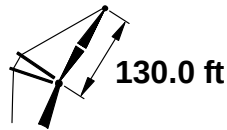
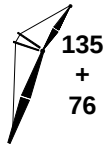
ASME B30.5



178,000 lb
+
70,500 lb



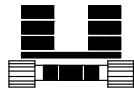
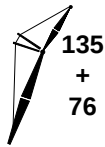
26	82.6	160.6	179,800*	28	82.4	170.3	166,200*	28	82.8	180.2	160,100*
28	81.9	160.3	173,200*	30	81.7	170.0	160,800*	30	82.1	179.9	155,000*
30	81.1	160.0	167,000*	32	81.0	169.6	155,600*	32	81.5	179.6	149,900*
32	80.4	159.6	160,900*	34	80.3	169.3	150,500*	34	80.8	179.3	145,000*
34	79.6	159.3	152,500*	36	79.5	168.9	141,400*	36	80.1	178.9	140,100*
36	78.9	158.8	141,500*	38	78.8	168.5	131,500*	38	79.5	178.5	131,100*
38	78.1	158.4	131,600*	40	78.1	168.0	122,600*	40	78.8	178.1	122,200*
40	77.3	157.9	122,600*	45	76.3	166.8	101,500	45	77.1	177.0	101,700
45	75.4	156.7	101,300	50	74.5	165.5	83,800	50	75.4	175.7	83,900
50	73.5	155.2	83,600	55	72.7	163.9	70,000	55	73.7	174.2	70,100
55	71.5	153.5	69,800	60	70.8	162.2	58,900	60	72.0	172.6	59,000
60	69.5	151.7	58,800	65	69.0	160.3	49,800	65	70.2	170.8	49,800
65	67.5	149.6	49,700	70	67.1	158.2	42,200	70	68.4	168.9	42,200
70	65.5	147.4	42,100	75	65.1	155.9	35,800	75	66.6	166.7	35,800
75	63.4	144.9	35,700	80	63.2	153.4	30,300	80	64.8	164.4	30,300
80	61.3	142.2	30,200	85	61.2	150.7	25,300	85	63.0	161.9	25,000
85	59.2	139.2	25,300	90	59.2	147.7	20,400	90	61.1	159.1	20,200
90	56.9	136.0	20,500	95	57.1	144.5	16,200	95	59.2	156.2	15,900
95	54.7	132.5	16,200	100	55.0	141.0	12,300	100	57.2	153.0	12,100
100	52.3	128.7	12,400	105	52.8	137.3	8,900	105	55.2	149.6	8,600
								110	53.2	145.8	5,500



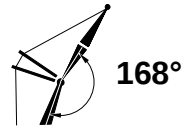
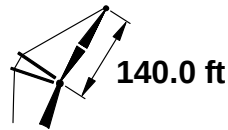
 ft	 o	 ft	 lb
 183.7 ft			
30	82.6	189.9	140,100 *
32	81.9	189.6	135,900 *
34	81.3	189.3	131,800 *
36	80.7	188.9	127,800 *
38	80.0	188.6	123,900 *
40	79.4	188.2	120,100 *
45	77.8	187.1	101,800
50	76.2	185.9	84,000
55	74.6	184.5	70,200
60	73.0	183.0	59,100
65	71.3	181.3	50,000
70	69.7	179.5	42,300
75	68.0	177.5	35,900
80	66.3	175.3	30,300
85	64.5	172.9	24,900
90	62.8	170.4	20,100
95	61.0	167.6	15,800
100	59.2	164.7	12,000
105	57.4	161.5	8,600
110	55.5	158.1	5,500

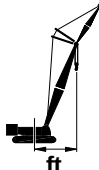
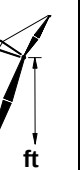
14000 S-3

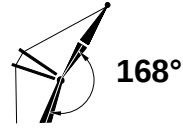
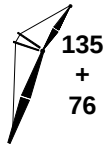
ASME B30.5

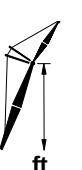


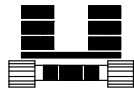
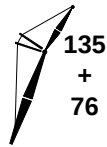
178,000 lb
+
70,500 lb



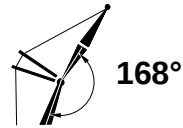
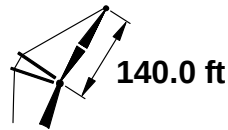
 ft	 °	 ft	 lb	 ft	 °	 ft	 lb	 ft	 °	 ft	 lb
 65.6 ft				 75.5 ft				 85.3 ft			
15	82.3	72.7	373,500*	16	82.6	82.5	328,700*	17	82.8	92.3	300,100*
16	81.4	72.5	349,800*	17	81.8	82.4	324,000*	18	82.1	92.2	295,800*
17	80.5	72.3	328,600*	18	81.0	82.2	310,500*	19	81.4	92.0	291,600*
18	79.7	72.1	309,500*	19	80.3	82.0	293,300*	20	80.7	91.8	278,700*
19	78.8	71.9	292,300*	20	79.5	81.8	277,700*	22	79.3	91.4	251,400*
20	77.9	71.7	276,600*	22	77.9	81.3	250,400*	24	78.0	90.9	227,700*
22	76.1	71.1	249,100*	24	76.4	80.8	226,300*	26	76.6	90.4	206,900*
24	74.2	70.5	224,600*	26	74.8	80.2	205,400*	28	75.2	89.9	188,900*
26	72.4	69.8	203,700*	28	73.2	79.6	187,400*	30	73.8	89.3	173,100*
28	70.5	69.1	185,600*	30	71.6	78.9	171,500*	32	72.4	88.6	159,200*
30	68.6	68.3	169,700*	32	69.9	78.1	157,600*	34	70.9	87.9	146,900*
32	66.7	67.4	155,700*	34	68.3	77.3	145,200*	36	69.5	87.1	135,800*
34	64.8	66.4	143,300*	36	66.6	76.4	134,100*	38	68.0	86.3	125,900*
36	62.8	65.3	132,100*	38	64.9	75.4	124,100*	40	66.6	85.4	116,400
38	60.8	64.2	122,100*	40	63.2	74.3	114,300	45	62.8	82.8	93,400
40	58.7	62.9	111,600	45	58.8	71.4	91,300	50	58.9	79.9	76,100
45	53.3	59.3	88,700	50	54.2	67.8	74,000	55	54.8	76.4	62,500



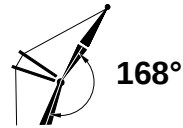
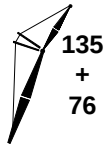
    lb				    lb				    lb			
 95.1 ft				 105.0 ft				 114.8 ft			
18	82.9	102.1	288,700*	20	82.5	111.8	261,700*	22	82.1	121.4	245,600*
19	82.3	102.0	284,800*	22	81.4	111.4	252,100*	24	81.1	121.1	229,700*
20	81.7	101.8	279,200*	24	80.3	111.1	229,500*	26	80.1	120.7	209,000*
22	80.5	101.4	251,900*	26	79.1	110.7	208,800*	28	79.1	120.3	191,100*
24	79.2	101.0	228,500*	28	78.0	110.2	190,800*	30	78.0	119.9	175,400*
26	78.0	100.6	207,700*	30	76.9	109.7	175,100*	32	77.0	119.4	161,500*
28	76.8	100.1	189,700*	32	75.8	109.2	161,300*	34	76.0	118.9	149,200*
30	75.5	99.5	174,000*	34	74.6	108.6	148,900*	36	74.9	118.3	138,200*
32	74.2	98.9	160,100*	36	73.5	108.0	137,900*	38	73.9	117.7	128,300*
34	73.0	98.3	147,700*	38	72.3	107.3	128,000*	40	72.9	117.1	119,400*
36	71.7	97.6	136,700*	40	71.2	106.6	119,100*	45	70.2	115.3	97,100
38	70.4	96.9	126,800*	45	68.3	104.7	96,200	50	67.5	113.2	79,600
40	69.1	96.1	117,800*	50	65.3	102.4	78,800	55	64.8	110.9	66,000
45	65.8	93.9	94,800	55	62.2	99.8	65,200	60	61.9	108.3	55,000
50	62.5	91.3	77,500	60	59.0	96.8	54,300	65	59.0	105.3	46,100
55	59.0	88.3	63,900	65	55.7	93.5	45,300	70	56.1	102.0	38,600
60	55.3	84.9	53,000	70	52.3	89.7	37,900	75	52.9	98.3	32,200
65	51.5	81.0	44,000								

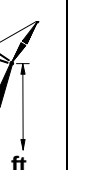
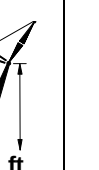


178,000 lb
+
70,500 lb



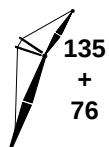
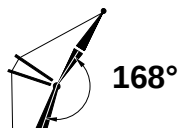
124.7 ft				134.5 ft				144.4 ft			
22	82.7	131.4	230,100*	24	82.4	141.0	213,400*	24	82.9	151.0	192,400*
24	81.8	131.1	220,700*	26	81.6	140.7	204,700*	26	82.1	150.7	185,200*
26	80.9	130.7	209,400*	28	80.7	140.4	191,400*	28	81.3	150.4	178,400*
28	79.9	130.3	191,400*	30	79.8	140.0	175,700*	30	80.5	150.0	171,800*
30	79.0	129.9	175,800*	32	79.0	139.6	161,900*	32	79.7	149.6	162,400*
32	78.1	129.5	161,900*	34	78.1	139.1	149,600*	34	78.9	149.2	150,100*
34	77.1	129.0	149,600*	36	77.2	138.7	138,600*	36	78.1	148.8	139,200*
36	76.2	128.5	138,700*	38	76.3	138.2	128,800*	38	77.3	148.3	129,300*
38	75.2	128.0	128,800*	40	75.4	137.6	119,800*	40	76.5	147.8	120,400*
40	74.3	127.4	119,800*	45	73.2	136.1	98,300	45	74.4	146.4	98,900
45	71.8	125.7	97,800	50	71.0	134.4	80,700	50	72.3	144.8	81,300
50	69.4	123.9	80,300	55	68.7	132.5	67,100	55	70.2	143.1	67,600
55	66.9	121.8	66,600	60	66.4	130.3	56,100	60	68.1	141.1	56,700
60	64.4	119.4	55,700	65	64.0	127.9	47,100	65	65.9	138.8	47,600
65	61.8	116.7	46,700	70	61.6	125.2	39,500	70	63.7	136.4	40,100
70	59.1	113.8	39,200	75	59.1	122.3	33,200	75	61.4	133.7	33,700
75	56.3	110.5	32,800	80	56.6	119.0	27,700	80	59.1	130.7	28,300
80	53.5	106.8	27,400	85	53.9	115.4	22,500	85	56.8	127.5	23,100
				90	51.2	111.4	17,700	90	54.3	124.0	18,300
								95	51.8	120.1	14,000



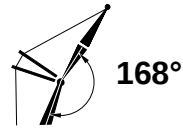
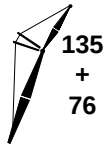
   				   				   			
154.2 ft				164.0 ft				173.9 ft			
26	82.6	160.6	177,600*	28	82.4	170.3	164,100*	28	82.8	180.2	158,000*
28	81.9	160.3	171,000*	30	81.7	170.0	158,700*	30	82.1	179.9	152,800*
30	81.1	160.0	164,700*	32	81.0	169.6	153,400*	32	81.5	179.6	147,800*
32	80.4	159.6	158,600*	34	80.3	169.3	148,300*	34	80.8	179.3	142,800*
34	79.6	159.3	150,000*	36	79.5	168.9	139,000*	36	80.1	178.9	138,000*
36	78.9	158.8	139,000*	38	78.8	168.5	129,100*	38	79.5	178.5	128,800*
38	78.1	158.4	129,100*	40	78.1	168.0	120,200*	40	78.8	178.1	119,900*
40	77.3	157.9	120,200*	45	76.3	166.8	99,500	45	77.1	177.0	99,600
45	75.4	156.7	99,200	50	74.5	165.5	81,800	50	75.4	175.7	82,000
50	73.5	155.2	81,600	55	72.7	163.9	68,100	55	73.7	174.2	68,200
55	71.5	153.5	67,900	60	70.8	162.2	57,100	60	72.0	172.6	57,100
60	69.5	151.7	56,900	65	69.0	160.3	48,000	65	70.2	170.8	48,100
65	67.5	149.6	47,800	70	67.1	158.2	40,500	70	68.4	168.9	40,500
70	65.5	147.4	40,300	75	65.1	155.9	34,100	75	66.6	166.7	34,100
75	63.4	144.9	33,900	80	63.2	153.4	28,500	80	64.8	164.4	28,200
80	61.3	142.2	28,400	85	61.2	150.7	23,000	85	63.0	161.9	22,800
85	59.2	139.2	23,000	90	59.2	147.7	18,200	90	61.1	159.1	18,000
90	56.9	136.0	18,200	95	57.1	144.5	14,000	95	59.2	156.2	13,700
95	54.7	132.5	14,000	100	55.0	141.0	10,200	100	57.2	153.0	9,900
100	52.3	128.7	10,200	105	52.8	137.3	6,700	105	55.2	149.6	6,500

14000 S-3

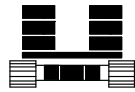
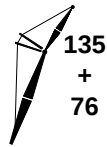
ASME B30.5


$$\begin{array}{r} 178,000 \text{ lb} \\ + \\ 70,500 \text{ lb} \\ \hline \end{array}$$


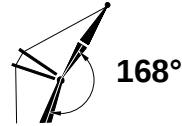
			
			
30	82.6	189.9	138,100 *
32	81.9	189.6	133,800 *
34	81.3	189.3	129,800 *
36	80.7	188.9	125,800 *
38	80.0	188.6	121,900 *
40	79.4	188.2	118,100 *
45	77.8	187.1	99,800
50	76.2	185.9	82,100
55	74.6	184.5	68,300
60	73.0	183.0	57,300
65	71.3	181.3	48,200
70	69.7	179.5	40,600
75	68.0	177.5	34,200
80	66.3	175.3	28,200
85	64.5	172.9	22,800
90	62.8	170.4	18,000
95	61.0	167.6	13,800
100	59.2	164.7	10,000
105	57.4	161.5	6,600

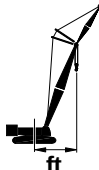
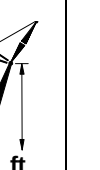
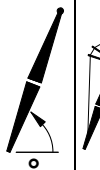
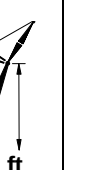
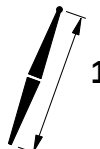
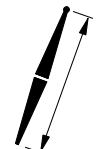


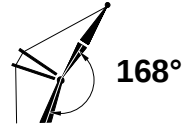
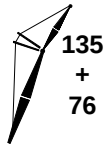
ft	o	ft	lb	ft	o	ft	lb	ft	o	ft	lb
65.6 ft				75.5 ft				85.3 ft			
15	82.3	72.7	371,300*	16	82.6	82.5	326,600*	17	82.8	92.3	298,200*
16	81.4	72.5	347,600*	17	81.8	82.4	321,800*	18	82.1	92.2	293,800*
17	80.5	72.3	326,500*	18	81.0	82.2	308,600*	19	81.4	92.0	289,600*
18	79.7	72.1	307,400*	19	80.3	82.0	291,400*	20	80.7	91.8	276,900*
19	78.8	71.9	290,200*	20	79.5	81.8	275,800*	22	79.3	91.4	249,700*
20	77.9	71.7	274,600*	22	77.9	81.3	248,200*	24	78.0	90.9	225,400*
22	76.1	71.1	246,400*	24	76.4	80.8	223,900*	26	76.6	90.4	204,700*
24	74.2	70.5	222,100*	26	74.8	80.2	203,000*	28	75.2	89.9	186,700*
26	72.4	69.8	201,200*	28	73.2	79.6	185,000*	30	73.8	89.3	171,000*
28	70.5	69.1	183,100*	30	71.6	78.9	169,200*	32	72.4	88.6	157,100*
30	68.6	68.3	167,200*	32	69.9	78.1	155,300*	34	70.9	87.9	144,800*
32	66.7	67.4	153,300*	34	68.3	77.3	143,000*	36	69.5	87.1	133,700*
34	64.8	66.4	140,900*	36	66.6	76.4	131,900*	38	68.0	86.3	123,800*
36	62.8	65.3	129,800*	38	64.9	75.4	122,000*	40	66.6	85.4	114,400
38	60.8	64.2	119,800*	40	63.2	74.3	112,100	45	62.8	82.8	91,500
40	58.7	62.9	109,300	45	58.8	71.4	89,300	50	58.9	79.9	74,200
45	53.3	59.3	86,500	50	54.2	67.8	72,100	55	54.8	76.4	60,800

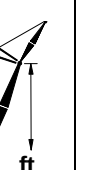
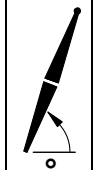
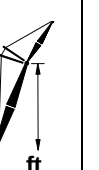
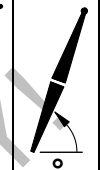
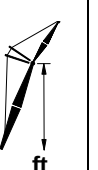


178,000 lb
+
70,500 lb



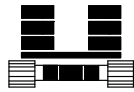
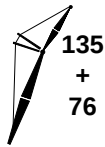
    ft o ft lb				    ft o ft lb				    ft o ft lb			
 95.1 ft				 105.0 ft				 114.8 ft			
18	82.9	102.1	286,800*	20	82.5	111.8	260,000*	22	82.1	121.4	243,600*
19	82.3	102.0	282,900*	22	81.4	111.4	250,000*	24	81.1	121.1	227,700*
20	81.7	101.8	277,400*	24	80.3	111.1	227,400*	26	80.1	120.7	207,000*
22	80.5	101.4	250,300*	26	79.1	110.7	206,700*	28	79.1	120.3	189,100*
24	79.2	101.0	226,300*	28	78.0	110.2	188,800*	30	78.0	119.9	173,500*
26	78.0	100.6	205,500*	30	76.9	109.7	173,100*	32	77.0	119.4	159,700*
28	76.8	100.1	187,600*	32	75.8	109.2	159,300*	34	76.0	118.9	147,400*
30	75.5	99.5	171,900*	34	74.6	108.6	147,000*	36	74.9	118.3	136,500*
32	74.2	98.9	158,100*	36	73.5	108.0	136,100*	38	73.9	117.7	126,600*
34	73.0	98.3	145,800*	38	72.3	107.3	126,200*	40	72.9	117.1	117,700*
36	71.7	97.6	134,800*	40	71.2	106.6	117,200*	45	70.2	115.3	95,400
38	70.4	96.9	124,900*	45	68.3	104.7	94,500	50	67.5	113.2	78,100
40	69.1	96.1	115,900*	50	65.3	102.4	77,200	55	64.8	110.9	64,500
45	65.8	93.9	93,100	55	62.2	99.8	63,700	60	61.9	108.3	53,600
50	62.5	91.3	75,800	60	59.0	96.8	52,800	65	59.0	105.3	44,700
55	59.0	88.3	62,300	65	55.7	93.5	43,900	70	56.1	102.0	37,300
60	55.3	84.9	51,400	70	52.3	89.7	36,500	75	52.9	98.3	30,900
65	51.5	81.0	42,500								



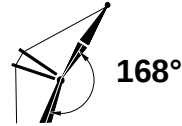
   				   				   			
124.7 ft				134.5 ft				144.4 ft			
22	82.7	131.4	228,200*	24	82.4	141.0	211,500*	24	82.9	151.0	190,600*
24	81.8	131.1	218,700*	26	81.6	140.7	202,800*	26	82.1	150.7	183,500*
26	80.9	130.7	207,400*	28	80.7	140.4	189,600*	28	81.3	150.4	176,600*
28	79.9	130.3	189,600*	30	79.8	140.0	173,900*	30	80.5	150.0	170,000*
30	79.0	129.9	173,900*	32	79.0	139.6	160,200*	32	79.7	149.6	160,700*
32	78.1	129.5	160,100*	34	78.1	139.1	147,900*	34	78.9	149.2	148,500*
34	77.1	129.0	147,900*	36	77.2	138.7	137,000*	36	78.1	148.8	137,600*
36	76.2	128.5	136,900*	38	76.3	138.2	127,100*	38	77.3	148.3	127,700*
38	75.2	128.0	127,100*	40	75.4	137.6	118,200*	40	76.5	147.8	118,800*
40	74.3	127.4	118,200*	45	73.2	136.1	96,800	45	74.4	146.4	97,400
45	71.8	125.7	96,200	50	71.0	134.4	79,300	50	72.3	144.8	80,000
50	69.4	123.9	78,800	55	68.7	132.5	65,700	55	70.2	143.1	66,400
55	66.9	121.8	65,200	60	66.4	130.3	54,800	60	68.1	141.1	55,400
60	64.4	119.4	54,300	65	64.0	127.9	45,800	65	65.9	138.8	46,500
65	61.8	116.7	45,400	70	61.6	125.2	38,400	70	63.7	136.4	39,000
70	59.1	113.8	37,900	75	59.1	122.3	32,000	75	61.4	133.7	32,600
75	56.3	110.5	31,600	80	56.6	119.0	26,500	80	59.1	130.7	27,100
80	53.5	106.8	26,200	85	53.9	115.4	21,100	85	56.8	127.5	21,700
				90	51.2	111.4	16,300	90	54.3	124.0	16,900
								95	51.8	120.1	12,700

14000 S-3

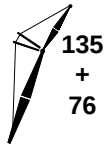
ASME B30.5



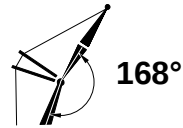
178,000 lb
+
70,500 lb



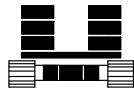
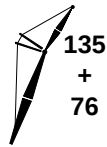
26	82.6	160.6	175,800*	28	82.4	170.3	162,400*	28	82.8	180.2	156,400*
28	81.9	160.3	169,200*	30	81.7	170.0	157,000*	30	82.1	179.9	151,200*
30	81.1	160.0	162,900*	32	81.0	169.6	151,700*	32	81.5	179.6	146,100*
32	80.4	159.6	156,900*	34	80.3	169.3	146,600*	34	80.8	179.3	141,200*
34	79.6	159.3	148,400*	36	79.5	168.9	137,400*	36	80.1	178.9	136,200*
36	78.9	158.8	137,400*	38	78.8	168.5	127,600*	38	79.5	178.5	127,300*
38	78.1	158.4	127,600*	40	78.1	168.0	118,700*	40	78.8	178.1	118,400*
40	77.3	157.9	118,700*	45	76.3	166.8	98,100	45	77.1	177.0	98,300
45	75.4	156.7	97,800	50	74.5	165.5	80,600	50	75.4	175.7	80,700
50	73.5	155.2	80,300	55	72.7	163.9	66,900	55	73.7	174.2	67,000
55	71.5	153.5	66,600	60	70.8	162.2	55,900	60	72.0	172.6	56,000
60	69.5	151.7	55,700	65	69.0	160.3	46,900	65	70.2	170.8	47,000
65	67.5	149.6	46,700	70	67.1	158.2	39,400	70	68.4	168.9	39,500
70	65.5	147.4	39,200	75	65.1	155.9	33,000	75	66.6	166.7	33,100
75	63.4	144.9	32,800	80	63.2	153.4	27,100	80	64.8	164.4	26,900
80	61.3	142.2	27,100	85	61.2	150.7	21,700	85	63.0	161.9	21,500
85	59.2	139.2	21,700	90	59.2	147.7	17,000	90	61.1	159.1	16,800
90	56.9	136.0	16,900	95	57.1	144.5	12,700	95	59.2	156.2	12,500
95	54.7	132.5	12,700	100	55.0	141.0	8,900	100	57.2	153.0	8,800
100	52.3	128.7	8,900	105	52.8	137.3	5,500	105	55.2	149.6	5,400



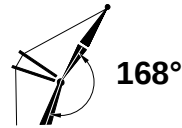
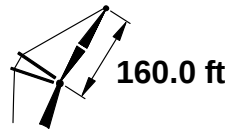
178,000 lb
+
70,500 lb

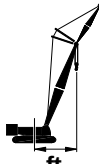
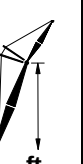
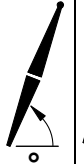


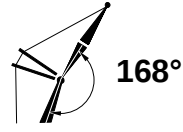
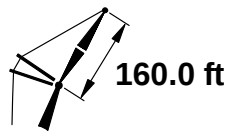
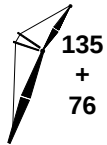
30	82.6	189.9	136,600 *
32	81.9	189.6	132,300 *
34	81.3	189.3	128,200 *
36	80.7	188.9	124,200 *
38	80.0	188.6	120,300 *
40	79.4	188.2	116,500 *
45	77.8	187.1	98,500
50	76.2	185.9	80,900
55	74.6	184.5	67,200
60	73.0	183.0	56,200
65	71.3	181.3	47,200
70	69.7	179.5	39,600
75	68.0	177.5	33,100
80	66.3	175.3	26,900
85	64.5	172.9	21,500
90	62.8	170.4	16,800
95	61.0	167.6	12,600
100	59.2	164.7	8,800
105	57.4	161.5	5,400

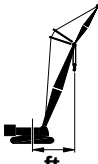
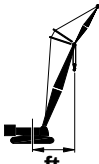
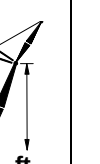
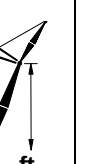
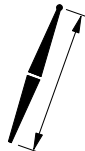


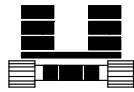
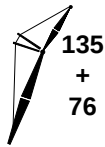
178,000 lb
+
70,500 lb



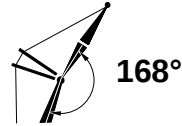
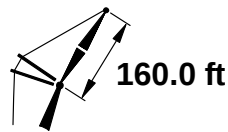
 ft	 °	 ft	 lb	 ft	 °	 ft	 lb	 ft	 °	 ft	 lb
 65.6 ft				 75.5 ft				 85.3 ft			
15	82.3	72.7	368,300*	16	82.6	82.5	323,500*	17	82.8	92.3	295,400*
16	81.4	72.5	344,600*	17	81.8	82.4	318,700*	18	82.1	92.2	291,000*
17	80.5	72.3	323,500*	18	81.0	82.2	305,700*	19	81.4	92.0	286,700*
18	79.7	72.1	304,500*	19	80.3	82.0	288,600*	20	80.7	91.8	274,200*
19	78.8	71.9	287,300*	20	79.5	81.8	273,000*	22	79.3	91.4	246,200*
20	77.9	71.7	271,400*	22	77.9	81.3	244,500*	24	78.0	90.9	222,000*
22	76.1	71.1	242,600*	24	76.4	80.8	220,200*	26	76.6	90.4	201,300*
24	74.2	70.5	218,200*	26	74.8	80.2	199,500*	28	75.2	89.9	183,300*
26	72.4	69.8	197,400*	28	73.2	79.6	181,500*	30	73.8	89.3	167,600*
28	70.5	69.1	179,300*	30	71.6	78.9	165,700*	32	72.4	88.6	153,800*
30	68.6	68.3	163,500*	32	69.9	78.1	151,800*	34	70.9	87.9	141,500*
32	66.7	67.4	149,500*	34	68.3	77.3	139,500*	36	69.5	87.1	130,500*
34	64.8	66.4	137,200*	36	66.6	76.4	128,500*	38	68.0	86.3	120,600*
36	62.8	65.3	126,100*	38	64.9	75.4	118,500*	40	66.6	85.4	111,400
38	60.8	64.2	116,100*	40	63.2	74.3	108,900	45	62.8	82.8	88,600
40	58.7	62.9	105,800	45	58.8	71.4	86,200	50	58.9	79.9	71,500
45	53.3	59.3	83,200	50	54.2	67.8	69,100	55	54.8	76.4	58,100



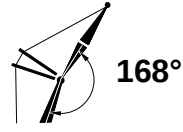
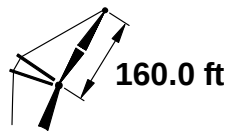
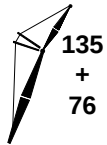
   				   				   			
 95.1 ft				 105.0 ft				 114.8 ft			
18	82.9	102.1	284,400 *	20	82.5	111.8	257,600 *	22	82.1	121.4	240,700 *
19	82.3	102.0	280,200 *	22	81.4	111.4	247,100 *	24	81.1	121.1	224,600 *
20	81.7	101.8	274,800 *	24	80.3	111.1	224,200 *	26	80.1	120.7	204,000 *
22	80.5	101.4	247,100 *	26	79.1	110.7	203,600 *	28	79.1	120.3	186,100 *
24	79.2	101.0	223,000 *	28	78.0	110.2	185,700 *	30	78.0	119.9	170,500 *
26	78.0	100.6	202,300 *	30	76.9	109.7	170,100 *	32	77.0	119.4	156,800 *
28	76.8	100.1	184,400 *	32	75.8	109.2	156,300 *	34	76.0	118.9	144,500 *
30	75.5	99.5	168,700 *	34	74.6	108.6	144,100 *	36	74.9	118.3	133,600 *
32	74.2	98.9	154,900 *	36	73.5	108.0	133,100 *	38	73.9	117.7	123,800 *
34	73.0	98.3	142,600 *	38	72.3	107.3	123,200 *	40	72.9	117.1	114,900 *
36	71.7	97.6	131,700 *	40	71.2	106.6	114,300 *	45	70.2	115.3	92,900
38	70.4	96.9	121,800 *	45	68.3	104.7	91,900	50	67.5	113.2	75,700
40	69.1	96.1	112,900 *	50	65.3	102.4	74,700	55	64.8	110.9	62,200
45	65.8	93.9	90,300	55	62.2	99.8	61,200	60	61.9	108.3	51,400
50	62.5	91.3	73,100	60	59.0	96.8	50,500	65	59.0	105.3	42,500
55	59.0	88.3	59,700	65	55.7	93.5	41,600	70	56.1	102.0	35,100
60	55.3	84.9	48,900	70	52.3	89.7	34,200	75	52.9	98.3	28,800
65	51.5	81.0	40,100								

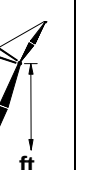
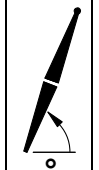
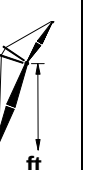
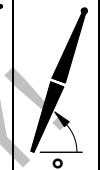
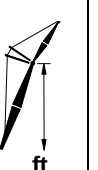


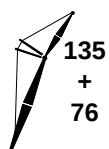
178,000 lb
+
70,500 lb



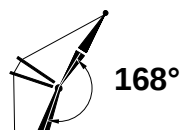
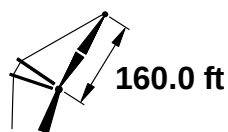
124.7 ft				134.5 ft				144.4 ft			
22	82.7	131.4	225,500*	24	82.4	141.0	208,800*	24	82.9	151.0	188,200*
24	81.8	131.1	216,000*	26	81.6	140.7	200,100*	26	82.1	150.7	181,000*
26	80.9	130.7	204,400*	28	80.7	140.4	186,700*	28	81.3	150.4	174,000*
28	79.9	130.3	186,600*	30	79.8	140.0	171,100*	30	80.5	150.0	167,400*
30	79.0	129.9	171,000*	32	79.0	139.6	157,400*	32	79.7	149.6	158,000*
32	78.1	129.5	157,300*	34	78.1	139.1	145,200*	34	78.9	149.2	145,800*
34	77.1	129.0	145,100*	36	77.2	138.7	134,300*	36	78.1	148.8	134,900*
36	76.2	128.5	134,200*	38	76.3	138.2	124,500*	38	77.3	148.3	125,100*
38	75.2	128.0	124,300*	40	75.4	137.6	115,600*	40	76.5	147.8	116,200*
40	74.3	127.4	115,400*	45	73.2	136.1	94,500	45	74.4	146.4	95,200
45	71.8	125.7	93,800	50	71.0	134.4	77,100	50	72.3	144.8	77,800
50	69.4	123.9	76,500	55	68.7	132.5	63,500	55	70.2	143.1	64,200
55	66.9	121.8	63,000	60	66.4	130.3	52,700	60	68.1	141.1	53,400
60	64.4	119.4	52,200	65	64.0	127.9	43,800	65	65.9	138.8	44,500
65	61.8	116.7	43,300	70	61.6	125.2	36,300	70	63.7	136.4	37,000
70	59.1	113.8	35,900	75	59.1	122.3	30,000	75	61.4	133.7	30,700
75	56.3	110.5	29,600	80	56.6	119.0	24,000	80	59.1	130.7	24,600
80	53.5	106.8	23,700	85	53.9	115.4	18,600	85	56.8	127.5	19,200
				90	51.2	111.4	13,800	90	54.3	124.0	14,500
								95	51.8	120.1	10,300

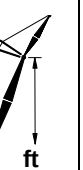


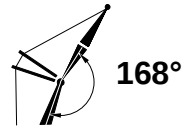
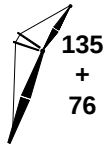
   				   				   			
154.2 ft				164.0 ft				173.9 ft			
26	82.6	160.6	173,400*	28	82.4	170.3	160,100*	28	82.8	180.2	154,200*
28	81.9	160.3	166,800*	30	81.7	170.0	154,600*	30	82.1	179.9	148,900*
30	81.1	160.0	160,500*	32	81.0	169.6	149,300*	32	81.5	179.6	143,800*
32	80.4	159.6	154,400*	34	80.3	169.3	144,200*	34	80.8	179.3	138,900*
34	79.6	159.3	145,700*	36	79.5	168.9	134,900*	36	80.1	178.9	133,900*
36	78.9	158.8	134,800*	38	78.8	168.5	125,100*	38	79.5	178.5	124,900*
38	78.1	158.4	125,000*	40	78.1	168.0	116,200*	40	78.8	178.1	116,000*
40	77.3	157.9	116,200*	45	76.3	166.8	95,900	45	77.1	177.0	96,200
45	75.4	156.7	95,600	50	74.5	165.5	78,500	50	75.4	175.7	78,700
50	73.5	155.2	78,200	55	72.7	163.9	64,900	55	73.7	174.2	65,100
55	71.5	153.5	64,600	60	70.8	162.2	54,000	60	72.0	172.6	54,100
60	69.5	151.7	53,700	65	69.0	160.3	45,000	65	70.2	170.8	45,100
65	67.5	149.6	44,700	70	67.1	158.2	37,500	70	68.4	168.9	37,600
70	65.5	147.4	37,300	75	65.1	155.9	30,900	75	66.6	166.7	30,800
75	63.4	144.9	30,900	80	63.2	153.4	24,800	80	64.8	164.4	24,600
80	61.3	142.2	24,700	85	61.2	150.7	19,400	85	63.0	161.9	19,200
85	59.2	139.2	19,300	90	59.2	147.7	14,700	90	61.1	159.1	14,500
90	56.9	136.0	14,600	95	57.1	144.5	10,500	95	59.2	156.2	10,300
95	54.7	132.5	10,400	100	55.0	141.0	6,700	100	57.2	153.0	6,600
100	52.3	128.7	6,600								

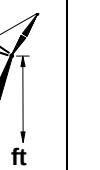
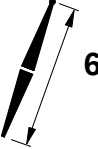


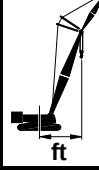
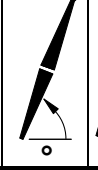
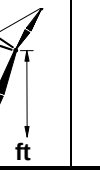
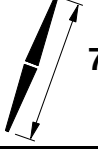
178,000 lb
+
70,500 lb

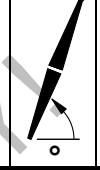
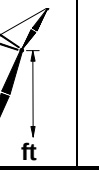


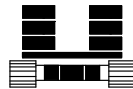
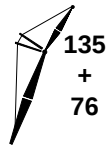
 ft	 °	 ft	 lb
 183.7 ft			
30	82.6	189.9	134,400*
32	81.9	189.6	130,100*
34	81.3	189.3	126,000*
36	80.7	188.9	122,000*
38	80.0	188.6	118,000*
40	79.4	188.2	114,200*
45	77.8	187.1	96,400
50	76.2	185.9	78,900
55	74.6	184.5	65,300
60	73.0	183.0	54,300
65	71.3	181.3	45,400
70	69.7	179.5	37,900
75	68.0	177.5	30,800
80	66.3	175.3	24,700
85	64.5	172.9	19,300
90	62.8	170.4	14,600
95	61.0	167.6	10,400
100	59.2	164.7	6,700



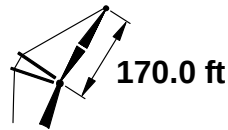
			
ft	o	ft	lb
 65.6 ft			
15	82.3	72.7	365,400*
16	81.4	72.5	341,800*
17	80.5	72.3	320,700*
18	79.7	72.1	301,700*
19	78.8	71.9	284,200*
20	77.9	71.7	267,800*
22	76.1	71.1	239,000*
24	74.2	70.5	214,700*
26	72.4	69.8	193,900*
28	70.5	69.1	175,900*
30	68.6	68.3	160,100*
32	66.7	67.4	146,200*
34	64.8	66.4	133,800*
36	62.8	65.3	122,800*
38	60.8	64.2	112,800*
40	58.7	62.9	102,600
45	53.3	59.3	80,100

			
ft	o	ft	lb
 75.5 ft			
16	82.6	82.5	321,200*
17	81.8	82.4	316,300*
18	81.0	82.2	303,100*
19	80.3	82.0	286,000*
20	79.5	81.8	269,800*
22	77.9	81.3	241,200*
24	76.4	80.8	217,000*
26	74.8	80.2	196,200*
28	73.2	79.6	178,300*
30	71.6	78.9	162,600*
32	69.9	78.1	148,700*
34	68.3	77.3	136,400*
36	66.6	76.4	125,400*
38	64.9	75.4	115,500*
40	63.2	74.3	105,900
45	58.8	71.4	83,400
50	54.2	67.8	66,400

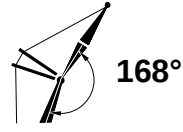
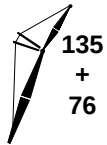
			
ft	o	ft	lb
 85.3 ft			
17	82.8	92.3	293,200*
18	82.1	92.2	288,800*
19	81.4	92.0	284,500*
20	80.7	91.8	271,500*
22	79.3	91.4	243,000*
24	78.0	90.9	218,900*
26	76.6	90.4	198,200*
28	75.2	89.9	180,300*
30	73.8	89.3	164,700*
32	72.4	88.6	150,900*
34	70.9	87.9	138,600*
36	69.5	87.1	127,600*
38	68.0	86.3	117,800*
40	66.6	85.4	108,600
45	62.8	82.8	86,000
50	58.9	79.9	69,000
55	54.8	76.4	55,700

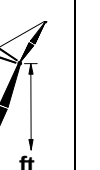
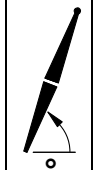
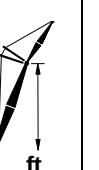
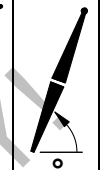
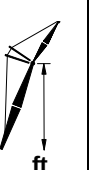


178,000 lb
+
70,500 lb



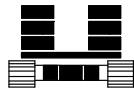
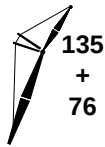
95.1 ft				105.0 ft				114.8 ft			
18	82.9	102.1	282,100*	20	82.5	111.8	255,700*	22	82.1	121.4	238,500*
19	82.3	102.0	278,100*	22	81.4	111.4	244,800*	24	81.1	121.1	221,800*
20	81.7	101.8	272,500*	24	80.3	111.1	221,300*	26	80.1	120.7	201,200*
22	80.5	101.4	244,000*	26	79.1	110.7	200,700*	28	79.1	120.3	183,400*
24	79.2	101.0	220,000*	28	78.0	110.2	182,900*	30	78.0	119.9	167,900*
26	78.0	100.6	199,300*	30	76.9	109.7	167,400*	32	77.0	119.4	154,200*
28	76.8	100.1	181,500*	32	75.8	109.2	153,600*	34	76.0	118.9	142,000*
30	75.5	99.5	165,900*	34	74.6	108.6	141,400*	36	74.9	118.3	131,100*
32	74.2	98.9	152,100*	36	73.5	108.0	130,500*	38	73.9	117.7	121,300*
34	73.0	98.3	139,900*	38	72.3	107.3	120,700*	40	72.9	117.1	112,400*
36	71.7	97.6	128,900*	40	71.2	106.6	111,800*	45	70.2	115.3	90,700
38	70.4	96.9	119,100*	45	68.3	104.7	89,600	50	67.5	113.2	73,500
40	69.1	96.1	110,200*	50	65.3	102.4	72,400	55	64.8	110.9	60,100
45	65.8	93.9	87,900	55	62.2	99.8	59,100	60	61.9	108.3	49,400
50	62.5	91.3	70,800	60	59.0	96.8	48,400	65	59.0	105.3	40,600
55	59.0	88.3	57,400	65	55.7	93.5	39,600	70	56.1	102.0	33,200
60	55.3	84.9	46,700	70	52.3	89.7	32,300	75	52.9	98.3	26,800
65	51.5	81.0	38,000								



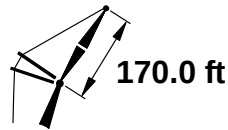
   				   				   			
124.7 ft				134.5 ft				144.4 ft			
22	82.7	131.4	223,400*	24	82.4	141.0	206,800*	24	82.9	151.0	186,200*
24	81.8	131.1	213,900*	26	81.6	140.7	197,800*	26	82.1	150.7	179,000*
26	80.9	130.7	201,800*	28	80.7	140.4	184,200*	28	81.3	150.4	172,100*
28	79.9	130.3	184,000*	30	79.8	140.0	168,600*	30	80.5	150.0	165,400*
30	79.0	129.9	168,500*	32	79.0	139.6	155,000*	32	79.7	149.6	155,600*
32	78.1	129.5	154,800*	34	78.1	139.1	142,800*	34	78.9	149.2	143,500*
34	77.1	129.0	142,600*	36	77.2	138.7	131,900*	36	78.1	148.8	132,600*
36	76.2	128.5	131,700*	38	76.3	138.2	122,100*	38	77.3	148.3	122,900*
38	75.2	128.0	121,900*	40	75.4	137.6	113,300*	40	76.5	147.8	114,000*
40	74.3	127.4	113,100*	45	73.2	136.1	92,400	45	74.4	146.4	93,100
45	71.8	125.7	91,700	50	71.0	134.4	75,100	50	72.3	144.8	75,900
50	69.4	123.9	74,500	55	68.7	132.5	61,700	55	70.2	143.1	62,400
55	66.9	121.8	61,000	60	66.4	130.3	50,900	60	68.1	141.1	51,600
60	64.4	119.4	50,300	65	64.0	127.9	42,000	65	65.9	138.8	42,700
65	61.8	116.7	41,400	70	61.6	125.2	34,600	70	63.7	136.4	35,400
70	59.1	113.8	34,100	75	59.1	122.3	28,000	75	61.4	133.7	28,700
75	56.3	110.5	27,600	80	56.6	119.0	21,800	80	59.1	130.7	22,500
80	53.5	106.8	21,400	85	53.9	115.4	16,400	85	56.8	127.5	17,200
				90	51.2	111.4	11,700	90	54.3	124.0	12,500
								95	51.8	120.1	8,300

14000 S-3

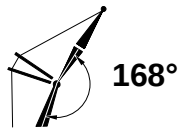
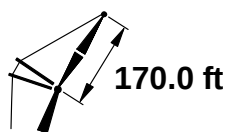
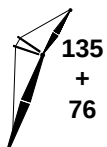
ASME B30.5



178,000 lb
+
70,500 lb



26	82.6	160.6	171,500*	28	82.4	170.3	158,300*	28	82.8	180.2	152,400*
28	81.9	160.3	164,900*	30	81.7	170.0	152,800*	30	82.1	179.9	147,100*
30	81.1	160.0	158,500*	32	81.0	169.6	147,500*	32	81.5	179.6	142,000*
32	80.4	159.6	152,400*	34	80.3	169.3	142,100*	34	80.8	179.3	137,100*
34	79.6	159.3	143,500*	36	79.5	168.9	132,700*	36	80.1	178.9	132,000*
36	78.9	158.8	132,600*	38	78.8	168.5	122,900*	38	79.5	178.5	122,700*
38	78.1	158.4	122,800*	40	78.1	168.0	114,100*	40	78.8	178.1	113,900*
40	77.3	157.9	114,000*	45	76.3	166.8	94,000	45	77.1	177.0	94,300
45	75.4	156.7	93,600	50	74.5	165.5	76,700	50	75.4	175.7	76,900
50	73.5	155.2	76,300	55	72.7	163.9	63,200	55	73.7	174.2	63,400
55	71.5	153.5	62,800	60	70.8	162.2	52,300	60	72.0	172.6	52,500
60	69.5	151.7	52,000	65	69.0	160.3	43,400	65	70.2	170.8	43,600
65	67.5	149.6	43,100	70	67.1	158.2	36,000	70	68.4	168.9	35,800
70	65.5	147.4	35,700	75	65.1	155.9	28,900	75	66.6	166.7	28,800
75	63.4	144.9	28,800	80	63.2	153.4	22,800	80	64.8	164.4	22,700
80	61.3	142.2	22,700	85	61.2	150.7	17,400	85	63.0	161.9	17,300
85	59.2	139.2	17,300	90	59.2	147.7	12,700	90	61.1	159.1	12,700
90	56.9	136.0	12,600	95	57.1	144.5	8,600	95	59.2	156.2	8,500
95	54.7	132.5	8,400	100	55.0	141.0	4,800	100	57.2	153.0	4,800
100	52.3	128.7	4,700								



30	82.6	189.9	132,700 *
32	81.9	189.6	128,400 *
34	81.3	189.3	124,300 *
36	80.7	188.9	120,200 *
38	80.0	188.6	116,300 *
40	79.4	188.2	112,500 *
45	77.8	187.1	94,600
50	76.2	185.9	77,200
55	74.6	184.5	63,600
60	73.0	183.0	52,700
65	71.3	181.3	43,800
70	69.7	179.5	35,900
75	68.0	177.5	28,800
80	66.3	175.3	22,800
85	64.5	172.9	17,500
90	62.8	170.4	12,800
95	61.0	167.6	8,600
100	59.2	164.7	4,900