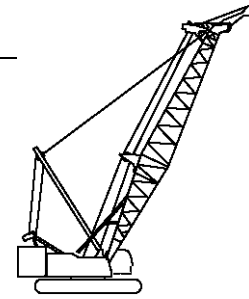




Liftcrane Boom Capacities

Boom No. 76
168,000 lb Crane Counterweight
53,000 lb Carbody Counterweight
360 Degree Rating



14000 SERIES 2



LIFTING CAPACITIES: Lifting capacities for various boom lengths and 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 (*). Capacities indicated by (b) require 10,000 lb minimum weight.

Upper boom point capacity for liftcrane service with single part whip line is 31,500 lb or 60,000 lb with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part whip line is 20,000 lb, or 40,000 lb with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

233 ft thru 292 ft boom lengths require only the middle two sheaves in lower boom point. All other sheaves must be removed from lower boom point.

Weight of upper boom point, jib, all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib point sheaves, is considered part of main boom load. 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 in a level position on a firm uniformly supporting surface with gantry up. Refer to boom rigging **No. A16106**, Wire Rope Specification chart **No. 8789-A**, and Wind Conditions chart **No. 8790-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 and boom within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8787-A**.



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

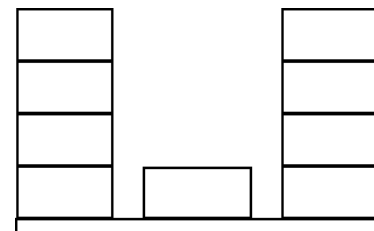


BOOM ANGLE: Boom angle in degrees ($^{\circ}$) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



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, 168,000 lb crane counterweight, and two 26,500 lb carbody counterweights.



168,000 lb Crane Counterweight
 8 Side Boxes - 1 Center Box



WITHOUT BOOM CATWALKS			
Maximum Boom and Jib Lengths Lifted Unassisted			
Over End of Blocked Crawlers		Over Side of Crawlers	
Boom Length	Jib No. 134	Boom Length	Jib No. 134
(a) 292 ft	—	(a) 262 ft	—
282 ft	—	253 ft	—
272 ft	—	243 ft	30 ft
262 ft	40 ft	233 ft	60 ft
253 ft	70 ft	223 ft	70 ft
243 ft	80 ft	213 ft	80 ft
Load block, hook and weight ball on ground at start. (a) Upper boom point cannot be used on 292 ft boom or over side of crawlers on 262 ft boom.			

Consult jib chart for jib capacities.

Upper boom point cannot be used when jib is attached.

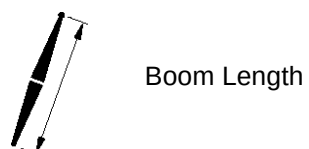
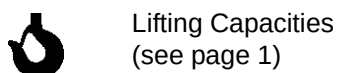
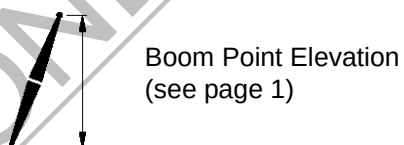
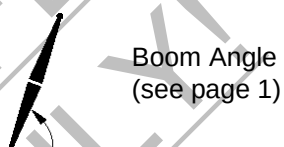
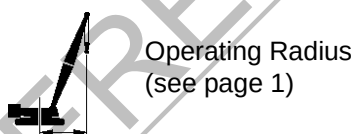
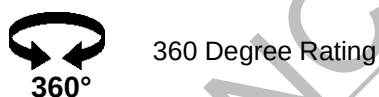
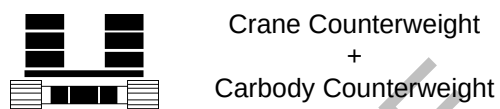
WITH BOOM CATWALKS			
Maximum Boom and Jib Lengths Lifted Unassisted			
Over End of Blocked Crawlers		Over Side of Crawlers	
Boom Length	Jib No. 134	Boom Length	Jib No. 134
(a)(b) 292 ft	—	(a) 262 ft	—
(b) 282 ft	—	253 ft	—
272 ft	—	243 ft	30 ft
262 ft	40 ft	233 ft	(b) 60 ft
253 ft	(b) 70 ft	223 ft	70 ft
243 ft	80 ft	213 ft	80 ft
Load block, hook and weight ball on ground at start. (a) Upper boom point cannot be used on 292 ft boom or over side of crawlers on 262 ft boom. 292 ft boom <i>must</i> be rigged with one hoist lead line. (b) Requires lowerworks jacking cylinders.			

Deduct From Capacities When Jib Is Attached	
Jib Length	Jib No. 134
30 ft	3,900 lb
40 ft	4,700 lb
50 ft	5,600 lb
60 ft	6,600 lb
70 ft	7,600 lb
80 ft	8,700 lb

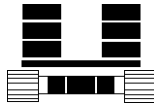
Upper Boom Point Deduct
Deduct 1,100 lb from capacities when upper boom point is attached.

Boom Catwalks Deduct
Deduct 600 lb from capacities when boom catwalks are attached.

Explanation of Symbols



76



168,000 lb
+
53,000 lb



360°

ft	o	ft	lb
 65.6 ft			
14	83.2	72.9	441,000 *b
15	82.3	72.7	409,500 *b
16	81.4	72.5	386,000 *b
17	80.5	72.3	364,900 *b
18	79.7	72.1	346,000 *b
19	78.8	71.9	328,900 *b
20	77.9	71.7	313,300 *b
22	76.1	71.1	286,100 *
24	74.2	70.5	263,100 *
26	72.4	69.8	243,400 *
28	70.5	69.1	226,300 *
30	68.6	68.3	211,300 *
32	66.7	67.4	198,000 *
34	64.8	66.4	183,000
36	62.8	65.3	168,300
38	60.8	64.2	155,600
40	58.7	62.9	144,600
42	56.6	61.5	135,000
44	54.4	60.0	126,400
46	52.2	58.5	118,800
48	49.9	56.7	112,000
50	47.5	54.8	105,800
55	41.0	49.3	92,700
60	33.4	42.3	82,200
65	23.7	32.3	73,500

ft	o	ft	lb
 75.5 ft			
16	82.6	82.5	385,600 *b
17	81.8	82.3	364,600 *b
18	81.0	82.2	345,700 *b
19	80.2	82.0	328,500 *b
20	79.5	81.8	313,000 *b
22	77.9	81.3	285,800 *
24	76.3	80.8	262,800 *
26	74.8	80.2	243,100 *
28	73.2	79.6	226,000 *
30	71.6	78.9	211,100 *
32	69.9	78.1	197,900 *
34	68.3	77.3	183,300
36	66.6	76.4	168,500
38	64.9	75.4	155,800
40	63.2	74.3	144,800
42	61.5	73.2	135,100
44	59.7	72.0	126,600
46	57.9	70.7	119,000
48	56.1	69.3	112,100
50	54.2	67.8	106,000
55	49.2	63.6	92,900
60	43.8	58.6	82,400
65	37.8	52.5	73,800
70	30.8	44.6	66,500
75	21.6	33.6	60,300

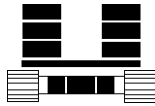
ft	o	ft	lb
 85.3 ft			
17	82.7	92.3	356,600 *
18	82.1	92.2	345,300 *
19	81.4	92.0	328,100 *
20	80.7	91.8	312,600 *
22	79.3	91.4	285,400 *
24	78.0	90.9	262,400 *
26	76.6	90.4	242,700 *
28	75.2	89.9	225,600 *
30	73.8	89.3	210,700 *
32	72.4	88.6	197,500 *
34	70.9	87.9	183,300
36	69.5	87.1	168,600
38	68.0	86.2	155,900
40	66.6	85.3	144,800
42	65.1	84.4	135,100
44	63.6	83.4	126,600
46	62.0	82.3	119,000
48	60.5	81.1	112,100
50	58.9	79.8	106,000
55	54.8	76.4	92,900
60	50.5	72.4	82,400
65	45.9	67.7	73,800
70	40.8	62.1	66,600
75	35.2	55.3	60,400
80	28.6	46.8	55,100
85	19.8	34.8	50,500

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76



168,000 lb
+
53,000 lb



360°

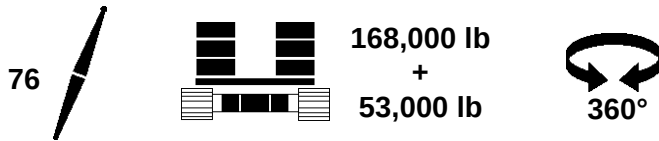
ft	o	ft	lb
95.1 ft			
18	82.9	102.1	343,500 *
19	82.3	102.0	328,000 *
20	81.7	101.8	312,400 *
22	80.5	101.4	285,200 *
24	79.2	101.0	262,200 *
26	78.0	100.6	242,500 *
28	76.7	100.1	225,500 *
30	75.5	99.5	210,600 *
32	74.2	98.9	197,400 *
34	73.0	98.3	183,500
36	71.7	97.6	168,700
38	70.4	96.9	156,000
40	69.1	96.1	145,000
42	67.8	95.2	135,300
44	66.5	94.3	126,700
46	65.2	93.4	119,100
48	63.8	92.4	112,200
50	62.5	91.3	106,100
55	59.0	88.3	93,000
60	55.3	84.9	82,500
65	51.5	81.0	73,900
70	47.4	76.6	66,700
75	43.1	71.4	60,600
80	38.4	65.3	55,300
85	33.0	58.0	50,700
90	26.7	48.7	46,700
95	18.4	35.8	43,000

ft	o	ft	lb
105.0 ft			
19	83.0	111.9	315,000 *
20	82.5	111.8	311,900 *
22	81.4	111.4	284,800 *
24	80.2	111.1	261,800 *
26	79.1	110.7	242,100 *
28	78.0	110.2	225,000 *
30	76.9	109.7	210,100 *
32	75.8	109.2	196,900 *
34	74.6	108.6	183,400
36	73.5	108.0	168,600
38	72.3	107.3	155,900
40	71.2	106.6	144,800
42	70.0	105.9	135,100
44	68.8	105.1	126,500
46	67.7	104.2	118,900
48	66.5	103.3	112,000
50	65.2	102.4	105,900
55	62.2	99.8	92,800
60	59.0	96.8	82,300
65	55.7	93.5	73,700
70	52.3	89.7	66,500
75	48.7	85.3	60,400
80	44.9	80.4	55,100
85	40.8	74.8	50,600
90	36.2	68.2	46,500
95	31.2	60.4	43,000
100	25.1	50.5	39,800
105	17.1	36.7	36,800

ft	o	ft	lb
114.8 ft			
22	82.1	121.4	284,500 *
24	81.1	121.1	261,500 *
26	80.1	120.7	241,800 *
28	79.1	120.3	224,800 *
30	78.0	119.8	209,900 *
32	77.0	119.4	196,700 *
34	76.0	118.8	183,400
36	74.9	118.3	168,600
38	73.9	117.7	155,900
40	72.9	117.1	144,800
42	71.8	116.4	135,100
44	70.7	115.6	126,500
46	69.7	114.9	118,800
48	68.6	114.1	112,000
50	67.5	113.2	105,800
55	64.8	110.9	92,700
60	61.9	108.3	82,200
65	59.0	105.3	73,600
70	56.0	102.0	66,400
75	52.9	98.3	60,300
80	49.7	94.1	55,100
85	46.3	89.4	50,500
90	42.6	84.1	46,500
95	38.7	78.1	42,900
100	34.4	71.0	39,800
105	29.6	62.7	36,900
110	23.8	52.2	34,300
115	16.0	37.5	31,900

14000 S-2

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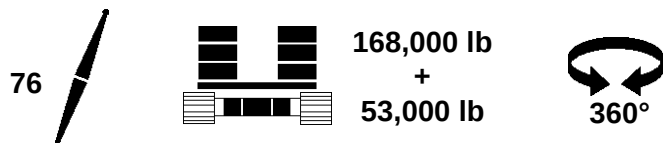
ft	o	ft	lb
124.7 ft			
22	82.7	131.4	281,600 *
24	81.8	131.1	261,300 *
26	80.9	130.7	241,600 *
28	79.9	130.3	224,500 *
30	79.0	129.9	209,600 *
32	78.1	129.5	196,500 *
34	77.1	129.0	183,500
36	76.2	128.5	168,700
38	75.2	127.9	155,900
40	74.3	127.4	144,800
42	73.3	126.7	135,100
44	72.3	126.1	126,500
46	71.4	125.4	118,800
48	70.4	124.7	112,000
50	69.4	123.9	105,800
55	66.9	121.8	92,700
60	64.3	119.4	82,200
65	61.7	116.7	73,600
70	59.1	113.8	66,400
75	56.3	110.5	60,200
80	53.5	106.8	55,000
85	50.5	102.8	50,400
90	47.4	98.3	46,400
95	44.2	93.2	42,900
100	40.7	87.6	39,700
105	36.9	81.1	36,900
110	32.8	73.7	34,300
115	28.1	64.8	32,000
120	22.6	53.7	29,900

ft	o	ft	lb
134.5 ft			
24	82.4	141.0	261,000 *
26	81.5	140.7	241,300 *
28	80.7	140.4	224,200 *
30	79.8	140.0	209,300 *
32	78.9	139.6	196,200 *
34	78.1	139.1	183,400
36	77.2	138.7	168,600
38	76.3	138.1	155,800
40	75.4	137.6	144,700
42	74.6	137.0	135,000
44	73.7	136.4	126,400
46	72.8	135.8	118,700
48	71.9	135.1	111,800
50	71.0	134.4	105,600
55	68.7	132.5	92,500
60	66.4	130.3	82,000
65	64.0	127.9	73,400
70	61.6	125.2	66,200
75	59.1	122.3	60,100
80	56.6	119.0	54,800
85	53.9	115.4	50,300
90	51.2	111.4	46,300
95	48.4	107.1	42,700
100	45.4	102.2	39,600
105	42.3	96.9	36,700
110	39.0	90.8	34,200
115	35.4	84.0	31,900
120	31.4	76.1	29,800
125	26.9	66.8	27,800
130	21.5	55.1	26,000

ft	o	ft	lb
144.4 ft			
24	82.9	151.0	238,600 *
26	82.1	150.7	231,900 *
28	81.3	150.4	223,700 *
30	80.5	150.0	208,800 *
32	79.7	149.6	195,700 *
34	78.9	149.2	183,300
36	78.1	148.8	168,400
38	77.3	148.3	155,600
40	76.5	147.8	144,500
42	75.6	147.3	134,700
44	74.8	146.7	126,100
46	74.0	146.1	118,400
48	73.1	145.5	111,500
50	72.3	144.8	105,300
55	70.2	143.1	92,200
60	68.1	141.1	81,700
65	65.9	138.8	73,000
70	63.7	136.4	65,800
75	61.4	133.7	59,700
80	59.1	130.7	54,500
85	56.8	127.5	49,900
90	54.3	123.9	45,900
95	51.8	120.1	42,400
100	49.2	115.8	39,200
105	46.5	111.2	36,400
110	43.7	106.0	33,800
115	40.6	100.3	31,500
120	37.4	93.9	29,400
125	34.0	86.7	27,500
130	30.1	78.5	25,700
135	25.7	68.7	24,000
140	20.5	56.4	22,500

14000 S-2

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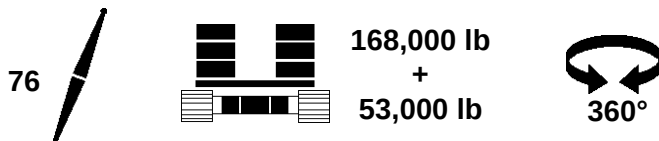
ft	o	ft	lb
154.2 ft			
26	82.6	160.6	225,200 *
28	81.9	160.3	218,900 *
30	81.1	160.0	208,500 *
32	80.4	159.6	195,300 *
34	79.6	159.2	183,200
36	78.9	158.8	168,300
38	78.1	158.4	155,500
40	77.3	157.9	144,300
42	76.6	157.4	134,600
44	75.8	156.9	125,900
46	75.0	156.4	118,200
48	74.3	155.8	111,300
50	73.5	155.2	105,100
55	71.5	153.5	92,000
60	69.5	151.7	81,500
65	67.5	149.6	72,800
70	65.5	147.4	65,600
75	63.4	144.9	59,500
80	61.3	142.2	54,200
85	59.2	139.2	49,700
90	56.9	136.0	45,700
95	54.7	132.5	42,100
100	52.3	128.7	39,000
105	49.9	124.5	36,100
110	47.4	120.0	33,600
115	44.8	115.0	31,300
120	42.1	109.6	29,200
125	39.2	103.6	27,300
130	36.0	96.9	25,500
135	32.7	89.4	23,800
140	29.0	80.7	22,300
145	24.7	70.4	20,900
150	19.6	57.7	19,600

ft	o	ft	lb
164.0 ft			
28	82.4	170.3	206,800 *
30	81.7	170.0	201,800 *
32	81.0	169.6	195,000 *
34	80.2	169.3	183,100
36	79.5	168.9	168,200
38	78.8	168.5	155,400
40	78.1	168.0	144,200
42	77.4	167.6	134,500
44	76.7	167.1	125,800
46	76.0	166.6	118,100
48	75.2	166.0	111,200
50	74.5	165.5	105,000
55	72.7	163.9	91,900
60	70.8	162.2	81,300
65	69.0	160.3	72,700
70	67.1	158.2	65,400
75	65.1	155.9	59,300
80	63.2	153.4	54,000
85	61.2	150.6	49,500
90	59.2	147.7	45,500
95	57.1	144.5	41,900
100	55.0	141.0	38,800
105	52.8	137.3	36,000
110	50.5	133.2	33,400
115	48.2	128.8	31,100
120	45.8	124.0	29,000
125	43.3	118.8	27,100
130	40.6	113.1	25,300
135	37.8	106.7	23,700
140	34.8	99.7	22,200
145	31.5	91.8	20,800
150	27.9	82.8	19,500
155	23.8	72.1	18,200
160	18.8	58.8	17,100

ft	o	ft	lb
173.9 ft			
28	82.8	180.2	199,400 *
30	82.1	179.9	194,500 *
32	81.5	179.6	189,800 *
34	80.8	179.3	183,000
36	80.1	178.9	168,000
38	79.5	178.5	155,200
40	78.8	178.1	144,000
42	78.1	177.7	134,300
44	77.4	177.2	125,600
46	76.8	176.7	117,900
48	76.1	176.2	111,000
50	75.4	175.7	104,800
55	73.7	174.2	91,600
60	72.0	172.6	81,100
65	70.2	170.8	72,400
70	68.4	168.9	65,200
75	66.6	166.7	59,000
80	64.8	164.4	53,800
85	63.0	161.9	49,200
90	61.1	159.1	45,200
95	59.2	156.2	41,700
100	57.2	153.0	38,500
105	55.2	149.6	35,700
110	53.2	145.8	33,100
115	51.1	141.9	30,800
120	48.9	137.5	28,700
125	46.6	132.9	26,800
130	44.3	127.8	25,100
135	41.9	122.3	23,400
140	39.3	116.4	21,900
145	36.6	109.8	20,500
150	33.6	102.4	19,200
155	30.5	94.2	18,000
160	27.0	84.8	16,800
165	22.9	73.7	15,800
170	18.1	59.8	14,700

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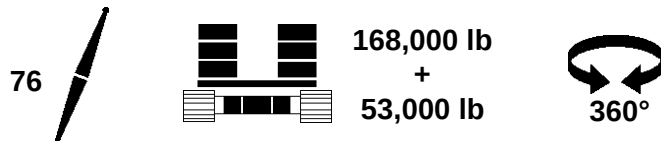
ft	o	ft	lb
183.7 ft			
30	82.6	189.9	177,400 *
32	81.9	189.6	173,400 *
34	81.3	189.3	169,600 *
36	80.7	188.9	166,000 *
38	80.0	188.6	155,000
40	79.4	188.2	143,800
42	78.8	187.7	134,000
44	78.1	187.3	125,300
46	77.5	186.9	117,600
48	76.8	186.4	110,700
50	76.2	185.9	104,500
55	74.6	184.5	91,300
60	73.0	183.0	80,700
65	71.3	181.3	72,000
70	69.7	179.5	64,800
75	68.0	177.4	58,700
80	66.3	175.3	53,400
85	64.5	172.9	48,800
90	62.8	170.4	44,800
95	61.0	167.6	41,300
100	59.2	164.6	38,100
105	57.4	161.5	35,300
110	55.5	158.1	32,700
115	53.5	154.4	30,400
120	51.6	150.5	28,300
125	49.5	146.3	26,400
130	47.4	141.7	24,600
135	45.2	136.8	23,000
140	43.0	131.5	21,500
145	40.6	125.8	20,100
150	38.1	119.5	18,800
155	35.4	112.7	17,600
160	32.6	105.1	16,500
165	29.5	96.5	15,400
170	26.1	86.7	14,400
175	22.2	75.2	13,400
180	17.4	60.7	12,500

ft	o	ft	lb
193.6 ft			
30	82.9	199.8	170,200 *
32	82.3	199.5	166,400 *
34	81.8	199.2	162,800 *
36	81.2	198.9	159,200 *
38	80.6	198.6	154,800
40	79.9	198.2	143,600
42	79.3	197.8	133,800
44	78.7	197.4	125,100
46	78.1	196.9	117,400
48	77.5	196.5	110,500
50	76.9	196.0	104,200
55	75.4	194.7	91,000
60	73.9	193.3	80,400
65	72.3	191.7	71,700
70	70.7	190.0	64,500
75	69.1	188.1	58,300
80	67.5	186.0	53,100
85	65.9	183.8	48,500
90	64.3	181.4	44,500
95	62.6	178.8	40,900
100	60.9	176.1	37,800
105	59.2	173.1	35,000
110	57.5	170.0	32,400
115	55.7	166.6	30,100
120	53.9	163.0	28,000
125	52.0	159.1	26,100
130	50.1	154.9	24,300
135	48.1	150.5	22,700
140	46.0	145.7	21,200
145	43.9	140.6	19,800
150	41.7	135.1	18,500
155	39.4	129.1	17,300
160	37.0	122.6	16,200
165	34.4	115.5	15,100
170	31.6	107.6	14,100
175	28.6	98.7	13,100
180	25.3	88.6	12,200
185	21.4	76.6	11,400
190	16.8	61.6	10,600

ft	o	ft	lb
203.4 ft			
32	82.7	209.5	150,400 *
34	82.2	209.2	149,000 *
36	81.6	208.9	147,600 *
38	81.0	208.6	146,100 *
40	80.4	208.2	143,400
42	79.9	207.8	133,600
44	79.3	207.4	124,900
46	78.7	207.0	117,200
48	78.1	206.6	110,300
50	77.6	206.1	104,000
55	76.1	204.9	90,800
60	74.7	203.6	80,200
65	73.2	202.1	71,500
70	71.7	200.4	64,300
75	70.2	198.6	58,100
80	68.7	196.7	52,800
85	67.2	194.6	48,200
90	65.6	192.3	44,200
95	64.1	189.9	40,700
100	62.5	187.3	37,500
105	60.9	184.6	34,700
110	59.2	181.6	32,200
115	57.6	178.4	29,800
120	55.9	175.1	27,700
125	54.1	171.5	25,800
130	52.4	167.7	24,100
135	50.5	163.6	22,400
140	48.7	159.3	20,900
145	46.8	154.6	19,500
150	44.8	149.6	18,200
155	42.7	144.3	17,000
160	40.6	138.5	15,900
165	38.3	132.3	14,800
170	35.9	125.6	13,800
175	33.4	118.2	12,900
180	30.7	110.0	12,000
185	27.8	100.8	11,200
190	24.5	90.4	10,400
195	20.8	78.0	9,600
200	16.2	62.4	8,900

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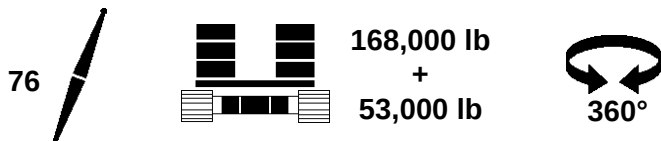
ft	o	ft	lb
213.2 ft			
34	82.5	219.1	136,500 *
36	82.0	218.8	132,700 *
38	81.4	218.5	131,400 *
40	80.9	218.2	130,100 *
42	80.3	217.8	128,800 *
44	79.8	217.5	124,700
46	79.2	217.1	116,900
48	78.7	216.7	110,000
50	78.1	216.2	103,700
55	76.8	215.1	90,500
60	75.4	213.8	79,900
65	74.0	212.3	71,200
70	72.6	210.8	64,000
75	71.2	209.1	57,800
80	69.7	207.2	52,500
85	68.3	205.3	47,900
90	66.8	203.1	43,900
95	65.3	200.9	40,400
100	63.9	198.4	37,200
105	62.3	195.8	34,400
110	60.8	193.0	31,800
115	59.2	190.1	29,500
120	57.7	186.9	27,400
125	56.0	183.6	25,500
130	54.4	180.1	23,700
135	52.7	176.3	22,100
140	51.0	172.3	20,600
145	49.2	168.0	19,200
150	47.4	163.4	17,900
155	45.5	158.6	16,700
160	43.6	153.4	15,600
165	41.6	147.9	14,500
170	39.5	141.9	13,500
175	37.3	135.4	12,600
180	35.0	128.4	11,700
185	32.5	120.8	10,900
190	29.9	112.3	10,100
195	27.0	102.9	9,300
200	23.8	92.1	8,600
205	20.1	79.3	7,900
210	15.6	63.2	7,200

ft	o	ft	lb
223.1 ft			
34	82.9	229.1	135,800 *
36	82.3	228.8	132,000 *
38	81.8	228.5	130,700 *
40	81.3	228.2	129,400 *
42	80.8	227.8	128,100 *
44	80.2	227.5	124,300
46	79.7	227.1	116,500
48	79.2	226.7	109,600
50	78.7	226.3	103,300
55	77.4	225.2	90,100
60	76.0	223.9	79,400
65	74.7	222.6	70,700
70	73.4	221.1	63,400
75	72.0	219.5	57,300
80	70.7	217.7	52,000
85	69.3	215.9	47,400
90	67.9	213.9	43,400
95	66.5	211.7	39,800
100	65.1	209.4	36,600
105	63.7	206.9	33,800
110	62.2	204.3	31,300
115	60.7	201.5	28,900
120	59.3	198.6	26,800
125	57.7	195.4	24,900
130	56.2	192.1	23,200
135	54.6	188.6	21,500
140	53.0	184.9	20,000
145	51.4	180.9	18,600
150	49.7	176.7	17,300
155	48.0	172.2	16,100
160	46.2	167.5	15,000
165	44.4	162.4	13,900
170	42.5	157.1	12,900
175	40.5	151.3	12,000
180	38.5	145.1	11,100
185	36.4	138.4	10,300
190	34.1	131.2	9,500
195	31.7	123.3	8,700
200	29.1	114.6	8,000
205	26.3	104.8	7,300
210	23.2	93.7	6,700
215	19.5	80.5	6,100
220	15.1	63.8	5,500

ft	o	ft	lb
232.9 ft			
36	82.7	238.7	122,600 *
38	82.2	238.4	122,100 *
40	81.7	238.1	121,600 *
42	81.2	237.8	121,000 *
44	80.7	237.5	120,500 *
46	80.2	237.1	116,900
48	79.7	236.7	109,900
50	79.2	236.4	103,700
55	77.9	235.3	90,400
60	76.6	234.1	79,700
65	75.4	232.8	71,000
70	74.1	231.4	63,700
75	72.8	229.9	57,600
80	71.5	228.2	52,300
85	70.2	226.4	47,700
90	68.9	224.5	43,600
95	67.6	222.4	40,100
100	66.2	220.2	36,900
105	64.9	217.9	34,100
110	63.5	215.4	31,500
115	62.1	212.8	29,200
120	60.7	210.0	27,100
125	59.3	207.0	25,200
130	57.8	203.9	23,400
135	56.3	200.6	21,800
140	54.8	197.1	20,300
145	53.3	193.4	18,900
150	51.7	189.5	17,600
155	50.1	185.4	16,400
160	48.5	181.0	15,300
165	46.8	176.3	14,200
170	45.1	171.4	13,200
175	43.3	166.2	12,300
180	41.5	160.6	11,400
185	39.6	154.6	10,600
190	37.6	148.2	9,800
195	35.5	141.3	9,000
200	33.3	133.9	8,300
205	30.9	125.7	7,600
210	28.4	116.7	7,000
215	25.6	106.7	6,400
220	22.5	95.2	5,800
225	19.0	81.6	5,200

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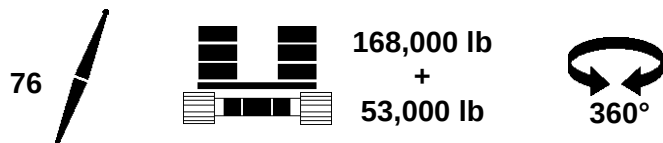
ft	o	ft	lb
242.8 ft			
36	83.0	248.7	111,600 *
38	82.5	248.4	111,100 *
40	82.0	248.1	110,600 *
42	81.5	247.8	110,000 *
44	81.0	247.5	109,500 *
46	80.6	247.1	109,000 *
48	80.1	246.8	108,500 *
50	79.6	246.4	103,400
55	78.4	245.4	90,200
60	77.2	244.2	79,500
65	76.0	243.0	70,800
70	74.8	241.6	63,500
75	73.5	240.2	57,300
80	72.3	238.6	52,000
85	71.0	236.9	47,400
90	69.8	235.0	43,400
95	68.5	233.1	39,800
100	67.2	231.0	36,600
105	65.9	228.8	33,800
110	64.6	226.4	31,200
115	63.3	223.9	28,900
120	62.0	221.3	26,800
125	60.6	218.5	24,900
130	59.3	215.5	23,100
135	57.9	212.4	21,500
140	56.5	209.1	20,000
145	55.0	205.6	18,600
150	53.6	202.0	17,300
155	52.1	198.1	16,100
160	50.6	194.0	15,000
165	49.0	189.7	13,900
170	47.4	185.2	12,900
175	45.8	180.3	12,000
180	44.1	175.2	11,100
185	42.3	169.8	10,300
190	40.5	164.0	9,500
195	38.7	157.9	8,700
200	36.7	151.3	8,000
205	34.7	144.2	7,300
210	32.5	136.5	6,700
215	30.2	128.1	6,100
220	27.7	118.8	5,500
225	25.0	108.5	4,900
230	22.0	96.7	4,400

ft	o	ft	lb
252.6 ft			
38	82.8	258.3	101,300 *
40	82.3	258.0	100,700 *
42	81.9	257.7	100,200 *
44	81.4	257.4	99,700 *
46	80.9	257.1	99,200 *
48	80.5	256.8	98,700 *
50	80.0	256.4	98,200 *
55	78.9	255.4	89,900
60	77.7	254.3	79,200
65	76.5	253.1	70,500
70	75.4	251.8	63,200
75	74.2	250.4	57,000
80	73.0	248.9	51,700
85	71.8	247.3	47,100
90	70.6	245.5	43,000
95	69.4	243.7	39,500
100	68.2	241.7	36,300
105	66.9	239.6	33,400
110	65.7	237.3	30,900
115	64.4	234.9	28,600
120	63.2	232.4	26,500
125	61.9	229.8	24,500
130	60.6	226.9	22,800
135	59.3	224.0	21,100
140	57.9	220.9	19,600
145	56.6	217.6	18,200
150	55.2	214.2	16,900
155	53.8	210.5	15,700
160	52.4	206.7	14,600
165	50.9	202.7	13,500
170	49.4	198.4	12,500
175	47.9	193.9	11,600
180	46.4	189.2	10,700
185	44.7	184.2	9,900
190	43.1	178.9	9,100
195	41.4	173.3	8,400
200	39.6	167.4	7,700
205	37.8	161.0	7,000
210	35.9	154.2	6,300
215	33.9	146.9	5,700
220	31.8	139.0	5,100
225	29.5	130.4	4,600
230	27.1	120.9	4,000

ft	o	ft	lb
262.5 ft			
40	82.6	268.0	91,000 *
42	82.2	267.7	90,500 *
44	81.7	267.4	90,000 *
46	81.3	267.1	89,500 *
48	80.8	266.7	89,100 *
50	80.4	266.4	88,600 *
55	79.3	265.5	87,500 *
60	78.2	264.4	78,900
65	77.1	263.3	70,100
70	75.9	262.0	62,800
75	74.8	260.7	56,600
80	73.7	259.2	51,300
85	72.5	257.6	46,700
90	71.4	256.0	42,600
95	70.2	254.2	39,000
100	69.0	252.3	35,900
105	67.9	250.2	33,000
110	66.7	248.1	30,500
115	65.5	245.8	28,100
120	64.3	243.4	26,000
125	63.0	240.9	24,100
130	61.8	238.2	22,300
135	60.6	235.4	20,700
140	59.3	232.5	19,200
145	58.0	229.4	17,800
150	56.7	226.1	16,500
155	55.4	222.7	15,300
160	54.0	219.1	14,100
165	52.7	215.3	13,100
170	51.3	211.3	12,100
175	49.8	207.1	11,200
180	48.4	202.7	10,300
185	46.9	198.1	9,400
190	45.4	193.2	8,700
195	43.8	188.0	7,900
200	42.2	182.6	7,200
205	40.5	176.8	6,500
210	38.8	170.6	5,900
215	37.0	164.1	5,300
220	35.1	157.1	4,700
225	33.1	149.6	4,100

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ft	o	ft	lb
272.3 ft			
40	82.9	277.9	85,500 *
42	82.5	277.6	85,100 *
44	82.0	277.4	84,700 *
46	81.6	277.0	84,300 *
48	81.2	276.7	83,900 *
50	80.7	276.4	83,500 *
55	79.7	275.5	82,500 *
60	78.6	274.5	78,500
65	77.5	273.4	69,700
70	76.4	272.2	62,400
75	75.4	270.9	56,200
80	74.3	269.5	50,900
85	73.2	268.0	46,300
90	72.1	266.4	42,200
95	71.0	264.6	38,700
100	69.8	262.8	35,500
105	68.7	260.9	32,600
110	67.6	258.8	30,100
115	66.4	256.6	27,800
120	65.3	254.4	25,600
125	64.1	251.9	23,700
130	62.9	249.4	21,900
135	61.7	246.7	20,300
140	60.5	243.9	18,800
145	59.3	241.0	17,400
150	58.1	237.9	16,100
155	56.8	234.6	14,900
160	55.5	231.2	13,800
165	54.2	227.6	12,700
170	52.9	223.9	11,700
175	51.6	219.9	10,800
180	50.2	215.8	9,900
185	48.8	211.4	9,100
190	47.4	206.9	8,300
195	45.9	202.1	7,500
200	44.4	197.0	6,800
205	42.9	191.7	6,200
210	41.3	186.1	5,500
215	39.7	180.1	4,900
220	38.0	173.8	4,300

ft	o	ft	lb
282.1 ft			
42	82.7	287.6	78,400 *
44	82.3	287.3	78,000 *
46	81.9	287.0	77,600 *
48	81.5	286.7	77,300 *
50	81.1	286.4	76,900 *
55	80.0	285.5	76,000 *
60	79.0	284.5	75,000 *
65	78.0	283.5	69,400
70	76.9	282.3	62,100
75	75.9	281.1	55,900
80	74.8	279.7	50,600
85	73.8	278.3	46,000
90	72.7	276.7	41,900
95	71.6	275.1	38,400
100	70.6	273.3	35,200
105	69.5	271.5	32,300
110	68.4	269.5	29,800
115	67.3	267.4	27,400
120	66.2	265.2	25,300
125	65.1	262.9	23,400
130	63.9	260.5	21,600
135	62.8	257.9	20,000
140	61.6	255.2	18,500
145	60.5	252.4	17,100
150	59.3	249.4	15,800
155	58.1	246.3	14,600
160	56.9	243.1	13,400
165	55.7	239.7	12,400
170	54.4	236.1	11,400
175	53.2	232.4	10,500
180	51.9	228.5	9,600
185	50.6	224.4	8,700
190	49.2	220.2	8,000
195	47.9	215.7	7,200
200	46.5	211.0	6,500
205	45.0	206.0	5,800
210	43.6	200.8	5,200
215	42.1	195.3	4,600
220	40.5	189.5	4,000

ft	o	ft	lb
292.0 ft			
42	83.0	297.5	72,300 *
44	82.6	297.2	71,900 *
46	82.2	297.0	71,500 *
48	81.8	296.6	71,200 *
50	81.4	296.3	70,800 *
55	80.4	295.5	70,000 *
60	79.4	294.6	69,000 *
65	78.4	293.5	68,200 *
70	77.4	292.4	61,800
75	76.4	291.2	55,600
80	75.4	289.9	50,300
85	74.3	288.5	45,600
90	73.3	287.0	41,600
95	72.3	285.4	38,000
100	71.2	283.7	34,800
105	70.2	282.0	32,000
110	69.2	280.1	29,400
115	68.1	278.1	27,100
120	67.0	276.0	24,900
125	66.0	273.7	23,000
130	64.9	271.4	21,200
135	63.8	269.0	19,600
140	62.7	266.4	18,100
145	61.6	263.7	16,700
150	60.4	260.9	15,400
155	59.3	257.9	14,200
160	58.1	254.8	13,100
165	57.0	251.6	12,000
170	55.8	248.2	11,000
175	54.6	244.7	10,100
180	53.4	241.0	9,200
185	52.1	237.1	8,400
190	50.9	233.1	7,600
195	49.6	228.9	6,800
200	48.3	224.4	6,100
205	46.9	219.8	5,500
210	45.6	214.9	4,800
215	44.2	209.8	4,200