

# Liftcrane Boom Capacities

**Boom No. 76**  
**178,000 lb Crane Counterweight**  
**70,500 lb Carbody Counterweight**  
**Crawler Machine on a Barge**  
**0 Degree thru 3 Degree Static Machine List**  
**No Travel - 360 Degree Rating**

**14000**  
**SERIES 3**



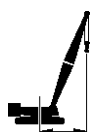
**LIFTING CAPACITIES:** Lifting capacities are for a crawler machine when operating on a barge. Machine shall be positively secured to prevent shifting. Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities 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, all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom 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 on a firm uniformly supporting surface with machine list not to exceed degrees noted. Refer to Boom Rigging **No. A16106**, Wire Rope Specification chart **No. 8789-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, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to Operator's Manual for operating guidelines.



**OPERATING RADIUS:** Operating radius is horizontal distance from axis of rotation at barge deck 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 barge deck 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, 178,000 lb crane counterweight, two 26,500 lb carbody counterweights, and four 4,375 lb carbody counterweights.

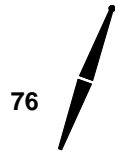
Maximum Boom Lengths Lifted Unassisted		
Machine List	Over End of Blocked Crawlers	Over Side of Crawlers
	Boom Length	Boom Length
0 Degree	(a)292.0 ft	(a)262.5 ft
1 Degree	282.1 ft	252.6 ft
2 Degree	282.1 ft	252.6 ft
3 Degree	272.3 ft	252.6 ft

Load block, hook and weight ball on barge deck at start.  
 (a) Upper boom point cannot be used on 292.0 ft boom, or over side of crawlers on 262.5 ft boom. Jib cannot be attached on crawler machine while operating on a barge.

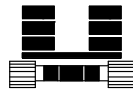
Upper Boom Point Deduct
Deduct 1,100 lb from capacities when upper boom point is attached.

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

## Explanation of Symbols



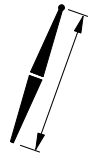
Boom No. 76



Crane Counterweight  
+  
Carbody Counterweight



360 Degree Rating



Boom Length



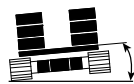
Operating Radius  
(see page 1)



Boom Angle  
(see page 1)



Boom Point Elevation  
(see page 1)

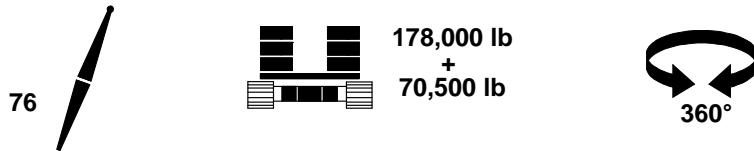


Machine List



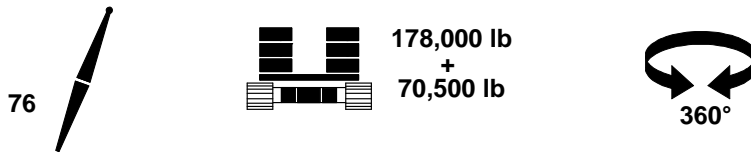
Lifting Capacities  
(see page 1)

# 14000 S-3



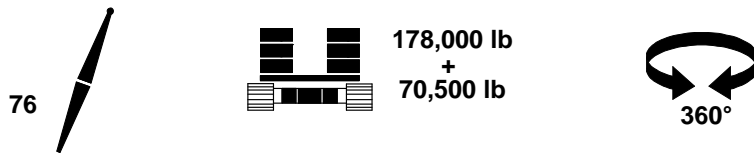
65.6 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
14	83.2	72.9	441,000*b				14
15	82.3	72.7	414,800*b				15
16	81.4	72.5	390,900*b	365,000*b			16
17	80.5	72.3	369,600*b	346,300*b	314,900*b		17
18	79.7	72.1	350,400*b	329,400*b	296,900*b	261,200*b	18
19	78.8	71.9	333,100*b	314,000*b	280,800*b	246,900*b	19
20	77.9	71.7	316,900*b	299,900*b	266,200*b	234,000*b	20
22	76.1	71.1	288,000*	275,100*	241,200*	211,700*	22
24	74.2	70.5	264,000*	254,000*	220,200*	193,100*	24
26	72.4	69.8	243,700*	235,800*	202,500*	177,400*	26
28	70.5	69.1	226,300*	220,000*	187,400*	163,900*	28
30	68.6	68.3	211,300*	206,000*	174,200*	152,200*	30
32	66.7	67.4	198,000*	193,600*	162,700*	142,000*	32
34	64.8	66.4	186,400*	182,600*	152,500*	132,900*	34
36	62.8	65.3	176,000*	170,900	143,500*	124,900*	36
38	60.8	64.2	166,500	158,700	135,400*	117,700*	38
40	58.7	62.9	154,800	148,000	128,100*	111,200*	40
42	56.6	61.5	144,500	138,500	121,500*	105,400*	42
44	54.4	60.1	135,400	130,100	115,500*	100,000*	44
46	52.2	58.5	127,300	122,600	110,000*	95,200*	46
48	49.9	56.7	120,000	115,900	105,000*	90,700*	48
50	47.5	54.8	113,500	109,800	100,300*	86,600*	50
55	41.0	49.3	99,600	96,800	90,200*	77,500*	55
60	33.4	42.3	88,300	86,200	81,700*	70,000*	60
65	23.7	32.3	79,100	77,500	74,500*	63,500*	65

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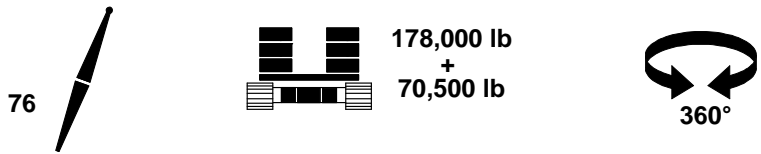
75.5 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
16	82.6	82.5	389,300*b				16
17	81.8	82.4	369,300*b	342,900*b			17
18	81.0	82.2	350,100*b	326,200*b	296,700*b		18
19	80.3	82.0	332,800*b	311,100*b	280,600*b		19
20	79.5	81.8	316,900*b	297,200*b	266,100*b	233,800*b	20
22	77.9	81.3	288,000*	272,800*	241,000*	211,500*	22
24	76.4	80.8	264,000*	252,000*	220,100*	192,900*	24
26	74.8	80.2	243,700*	234,000*	202,400*	177,200*	26
28	73.2	79.6	226,300*	218,300*	187,200*	163,700*	28
30	71.6	78.9	211,200*	204,500*	174,000*	152,000*	30
32	69.9	78.1	198,000*	192,300*	162,500*	141,800*	32
34	68.3	77.3	186,400*	181,400*	152,300*	132,800*	34
36	66.6	76.4	176,000*	169,800*	143,300*	124,700*	36
38	64.9	75.4	166,700	157,700	135,200*	117,600*	38
40	63.2	74.3	155,000	147,100	127,900*	111,100*	40
42	61.5	73.2	144,700	137,800	121,400*	105,200*	42
44	59.7	72.0	135,600	129,500	115,400*	99,900*	44
46	57.9	70.7	127,500	122,000	109,900*	95,000*	46
48	56.1	69.3	120,200	115,300	104,900*	90,600*	48
50	54.2	67.8	113,600	109,300	100,200*	86,500*	50
55	49.2	63.6	99,700	96,400	90,100*	77,500*	55
60	43.8	58.6	88,600	85,900	81,700*	70,000*	60
65	37.8	52.5	79,400	77,300	74,500*	63,600*	65
70	30.8	44.6	71,700	70,000	68,400*	58,100*	70
75	21.6	33.6	65,000	63,800	62,700	53,200*	75

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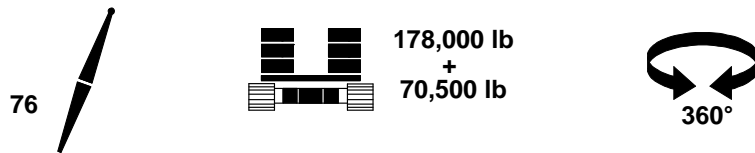
85.3 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
17	82.8	92.3	356,600*				17
18	82.1	92.2	349,700*				18
19	81.4	92.0	332,400*	308,200*			19
20	80.7	91.8	316,600*	294,500*	265,800*		20
22	79.3	91.4	288,000*	270,500*	240,700*	211,200*	22
24	78.0	90.9	264,000*	249,900*	219,800*	192,600*	24
26	76.6	90.4	243,700*	232,100*	202,100*	176,900*	26
28	75.2	89.9	226,300*	216,600*	186,900*	163,400*	28
30	73.8	89.3	211,200*	203,000*	173,800*	151,700*	30
32	72.4	88.6	198,000*	190,900*	162,300*	141,500*	32
34	70.9	87.9	186,400*	180,100*	152,100*	132,500*	34
36	69.5	87.1	176,000*	168,700	143,100*	124,500*	36
38	68.0	86.3	166,700*	156,700	135,000*	117,300*	38
40	66.6	85.4	155,000	146,200	127,700*	110,800*	40
42	65.1	84.4	144,700	136,900	121,100*	105,000*	42
44	63.6	83.4	135,600	128,700	115,100*	99,600*	44
46	62.0	82.3	127,500	121,300	109,700*	94,800*	46
48	60.5	81.1	120,200	114,600	104,600*	90,300*	48
50	58.9	79.9	113,600	108,600	100,000*	86,200*	50
55	54.8	76.4	99,700	95,800	89,900*	77,200*	55
60	50.5	72.4	88,600	85,400	81,500*	69,800*	60
65	45.9	67.7	79,400	76,900	74,400*	63,400*	65
70	40.9	62.1	71,700	69,700	67,700	57,900*	70
75	35.2	55.3	65,200	63,500	62,000	53,200*	75
80	28.6	46.8	59,500	58,200	57,000	49,000*	80
85	19.8	34.8	54,600	53,600	52,600	45,200*	85

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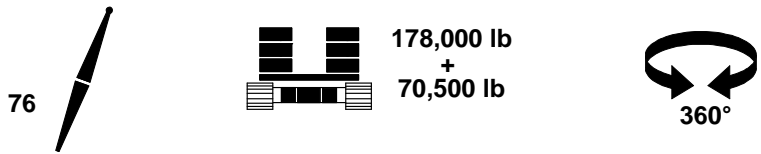
95.1 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
18	82.9	102.1	343,500*				18
19	82.3	102.0	332,200*				19
20	81.7	101.8	316,500*	292,100*			20
22	80.5	101.4	288,000*	268,400*	240,600*		22
24	79.2	101.0	264,000*	248,100*	219,700*	192,500*	24
26	78.0	100.6	243,700*	230,500*	202,000*	176,800*	26
28	76.8	100.1	226,300*	215,200*	186,800*	163,300*	28
30	75.5	99.5	211,200*	201,700*	173,700*	151,600*	30
32	74.2	98.9	198,000*	189,700*	162,200*	141,400*	32
34	73.0	98.3	186,400*	179,000*	152,000*	132,400*	34
36	71.7	97.6	176,000*	167,600	143,000*	124,400*	36
38	70.4	96.9	166,700*	155,800	134,900*	117,200*	38
40	69.1	96.1	155,100	145,400	127,600*	110,700*	40
42	67.8	95.2	144,800	136,200	121,000*	104,900*	42
44	66.5	94.3	135,700	128,000	115,100*	99,600*	44
46	65.2	93.4	127,600	120,700	109,600*	94,700*	46
48	63.8	92.4	120,300	114,100	104,600*	90,200*	48
50	62.5	91.3	113,700	108,200	100,000*	86,100*	50
55	59.0	88.3	99,800	95,400	89,900*	77,200*	55
60	55.3	84.9	88,700	85,100	81,500*	69,700*	60
65	51.5	81.0	79,500	76,600	73,900	63,400*	65
70	47.5	76.6	71,800	69,500	67,200	58,000*	70
75	43.1	71.4	65,300	63,400	61,500	53,200*	75
80	38.4	65.3	59,700	58,100	56,500	49,100*	80
85	33.0	58.0	54,800	53,500	52,200	45,400*	85
90	26.7	48.7	50,500	49,400	48,400	42,100*	90
95	18.4	35.9	46,700	45,800	45,000	39,100*	95

# 14000 S-3



105.0 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
19	83.0	111.9	315,000*				19
20	82.5	111.8	312,000*				20
22	81.4	111.4	288,000*	260,200*			22
24	80.3	111.1	264,000*	246,000*	219,400*		24
26	79.1	110.7	243,700*	228,600*	201,700*	176,400*	26
28	78.0	110.2	226,300*	213,500*	186,500*	162,900*	28
30	76.9	109.7	211,200*	200,100*	173,300*	151,200*	30
32	75.8	109.2	198,000*	188,200*	161,800*	141,000*	32
34	74.6	108.6	186,400*	177,600*	151,700*	132,000*	34
36	73.5	108.0	176,000*	166,400	142,600*	124,000*	36
38	72.3	107.3	166,700*	154,600	134,600*	116,800*	38
40	71.2	106.6	155,000	144,300	127,300*	110,300*	40
42	70.0	105.9	144,700	135,200	120,700*	104,500*	42
44	68.8	105.1	135,500	127,100	114,700*	99,200*	44
46	67.7	104.2	127,400	119,900	109,300*	94,300*	46
48	66.5	103.3	120,100	113,300	104,200*	89,900*	48
50	65.3	102.4	113,500	107,400	99,600*	85,800*	50
55	62.2	99.8	99,600	94,800	89,600*	76,800*	55
60	59.0	96.8	88,400	84,500	80,900	69,400*	60
65	55.7	93.5	79,300	76,100	73,000	63,000*	65
70	52.3	89.7	71,600	68,900	66,400	57,600*	70
75	48.7	85.4	65,100	62,900	60,800	52,900*	75
80	44.9	80.5	59,500	57,600	55,800	48,800*	80
85	40.8	74.8	54,700	53,100	51,500	45,100*	85
90	36.3	68.2	50,400	49,000	47,700	41,800*	90
95	31.2	60.4	46,600	45,500	44,400	38,900*	95
100	25.1	50.5	43,200	42,300	41,400	36,200*	100
105	17.1	36.7	40,100	39,400	38,700	33,800*	105

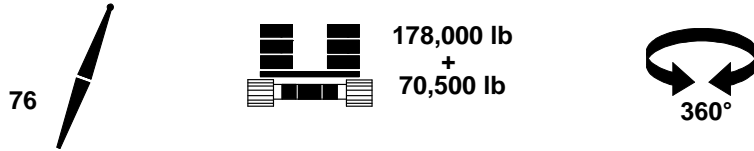
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114.8 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
22	82.1	121.4	288,000*				22
24	81.1	121.1	264,000*	244,100*			24
26	80.1	120.7	243,700*	227,000*	201,500*		26
28	79.1	120.3	226,300*	212,000*	186,300*	162,700*	28
30	78.0	119.9	211,200*	198,800*	173,200*	151,000*	30
32	77.0	119.4	198,000*	187,000*	161,600*	140,800*	32
34	76.0	118.9	186,400*	176,500*	151,500*	131,800*	34
36	74.9	118.3	176,000*	165,200	142,500*	123,800*	36
38	73.9	117.7	166,700*	153,600	134,400*	116,600*	38
40	72.9	117.1	155,000	143,400	127,100*	110,100*	40
42	71.8	116.4	144,600	134,400	120,500*	104,300*	42
44	70.7	115.6	135,500	126,400	114,500*	99,000*	44
46	69.7	114.9	127,400	119,200	109,100*	94,100*	46
48	68.6	114.1	120,100	112,700	104,100*	89,700*	48
50	67.5	113.2	113,500	106,800	99,500*	85,600*	50
55	64.8	110.9	99,500	94,200	89,400	76,600*	55
60	61.9	108.3	88,400	84,100	80,100	69,200*	60
65	59.0	105.3	79,200	75,700	72,400	62,900*	65
70	56.1	102.0	71,500	68,600	65,800	57,400*	70
75	52.9	98.3	65,000	62,500	60,200	52,700*	75
80	49.7	94.1	59,500	57,300	55,300	48,600*	80
85	46.3	89.4	54,600	52,800	51,100	45,000*	85
90	42.6	84.1	50,300	48,800	47,300	41,700*	90
95	38.7	78.1	46,600	45,200	44,000	38,800*	95
100	34.4	71.0	43,200	42,000	41,000	36,200*	100
105	29.6	62.7	40,200	39,200	38,300	33,800*	105
110	23.8	52.2	37,400	36,600	35,800	31,600*	110
115	16.0	37.5	34,900	34,200	33,600	29,500*	115

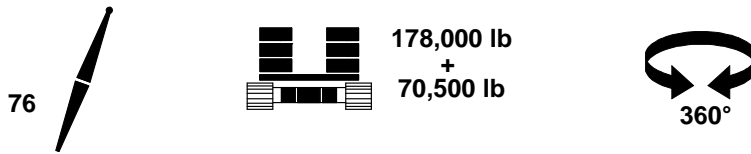


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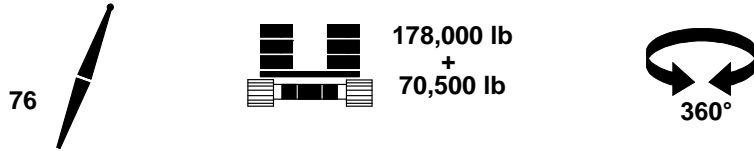
 124.7 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
22	82.7	131.4	281,600*				22
24	81.8	131.1	264,000*	225,000*			24
26	80.9	130.7	243,700*	218,900*	188,400*		26
28	79.9	130.3	226,300*	210,500*	183,900*	162,200*	28
30	79.0	129.9	211,200*	197,400*	173,000*	150,800*	30
32	78.1	129.5	198,000*	185,800*	161,500*	140,600*	32
34	77.1	129.0	186,400*	175,400*	151,300*	131,600*	34
36	76.2	128.5	176,000*	164,100	142,300*	123,600*	36
38	75.2	128.0	166,700*	152,600	134,200*	116,400*	38
40	74.3	127.4	155,000	142,600	126,900*	110,000*	40
42	73.3	126.7	144,600	133,600	120,400*	104,100*	42
44	72.3	126.1	135,500	125,700	114,400*	98,800*	44
46	71.4	125.4	127,300	118,500	108,900*	93,900*	46
48	70.4	124.7	120,000	112,100	103,900*	89,500*	48
50	69.4	123.9	113,400	106,200	99,300*	85,400*	50
55	66.9	121.8	99,500	93,800	88,600	76,500*	55
60	64.4	119.4	88,300	83,700	79,400	69,000*	60
65	61.8	116.7	79,100	75,300	71,700	62,700*	65
70	59.1	113.8	71,500	68,200	65,200	57,300*	70
75	56.3	110.5	65,000	62,200	59,700	52,600*	75
80	53.5	106.8	59,400	57,000	54,800	48,500*	80
85	50.5	102.8	54,500	52,500	50,600	44,800*	85
90	47.4	98.3	50,300	48,500	46,900	41,600*	90
95	44.2	93.2	46,500	45,000	43,600	38,700*	95
100	40.7	87.6	43,200	41,800	40,600	36,100*	100
105	36.9	81.1	40,100	39,000	37,900	33,700*	105
110	32.8	73.7	37,400	36,400	35,500	31,500*	110
115	28.1	64.8	34,900	34,100	33,300	29,500*	115
120	22.6	53.7	32,700	32,000	31,300	27,700*	120
125	15.0	38.1	30,500	30,000	29,400	25,900*	125


# 14000 S-3



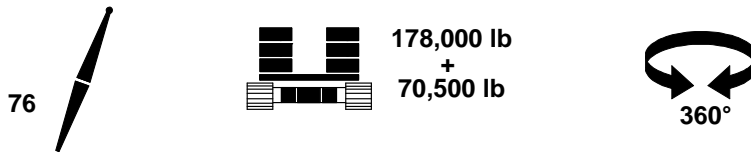
134.5 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
24	82.4	141.0	264,000*				24
26	81.6	140.7	243,700*	213,200*			26
28	80.7	140.4	226,300*	207,400*	178,600*		28
30	79.8	140.0	211,200*	196,100*	172,800*	150,600*	30
32	79.0	139.6	198,000*	184,500*	161,300*	140,400*	32
34	78.1	139.1	186,400*	174,200*	151,100*	131,300*	34
36	77.2	138.7	176,000*	162,900	142,100*	123,300*	36
38	76.3	138.2	166,700	151,600	134,000*	116,200*	38
40	75.4	137.6	154,900	141,600	126,700*	109,700*	40
42	74.6	137.0	144,500	132,700	120,100*	103,900*	42
44	73.7	136.4	135,400	124,900	114,200*	98,500*	44
46	72.8	135.8	127,200	117,800	108,700*	93,700*	46
48	71.9	135.1	119,900	111,400	103,700*	89,200*	48
50	71.0	134.4	113,300	105,600	98,700	85,100*	50
55	68.7	132.5	99,400	93,200	87,600	76,200*	55
60	66.4	130.3	88,200	83,100	78,600	68,800*	60
65	64.0	127.9	79,000	74,800	71,000	62,400*	65
70	61.6	125.2	71,300	67,800	64,600	57,000*	70
75	59.1	122.3	64,800	61,800	59,100	52,300*	75
80	56.6	119.0	59,200	56,700	54,300	48,200*	80
85	53.9	115.4	54,400	52,200	50,100	44,600*	85
90	51.2	111.4	50,100	48,200	46,400	41,400*	90
95	48.4	107.1	46,400	44,700	43,100	38,500*	95
100	45.4	102.2	43,000	41,500	40,100	35,800*	100
105	42.3	96.9	40,000	38,700	37,500	33,500*	105
110	39.0	90.8	37,300	36,100	35,100	31,300*	110
115	35.4	84.0	34,800	33,800	32,900	29,300*	115
120	31.4	76.1	32,600	31,700	30,900	27,500*	120
125	26.9	66.8	30,500	29,700	29,000	25,800*	125
130	21.5	55.1	28,600	27,900	27,300	24,200*	130

# 14000 S-3



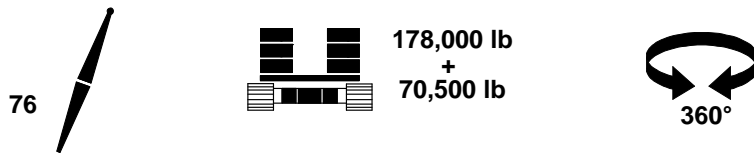
 144.4 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
24	82.9	151.0	238,600*				24
26	82.1	150.7	231,900*				26
28	81.3	150.4	225,200*	183,300*			28
30	80.5	150.0	211,200*	179,000*	152,500*		30
32	79.7	149.6	198,000*	174,900*	149,400*	130,600*	32
34	78.9	149.2	186,400*	170,900*	146,300*	128,200*	34
36	78.1	148.8	175,800*	161,700	141,700*	122,900*	36
38	77.3	148.3	166,300*	150,400	133,600*	115,700*	38
40	76.5	147.8	154,700	140,500	126,300*	109,200*	40
42	75.6	147.3	144,300	131,700	119,700*	103,400*	42
44	74.8	146.7	135,100	123,900	113,800*	98,100*	44
46	74.0	146.1	126,900	116,900	108,100	93,200*	46
48	73.2	145.5	119,600	110,500	102,500	88,800*	48
50	72.3	144.8	113,000	104,800	97,500	84,700*	50
55	70.2	143.1	99,000	92,500	86,600	75,700*	55
60	68.1	141.1	87,800	82,500	77,600	68,300*	60
65	65.9	138.8	78,600	74,200	70,100	62,000*	65
70	63.7	136.4	71,000	67,200	63,700	56,600*	70
75	61.4	133.7	64,500	61,300	58,300	51,900*	75
80	59.1	130.7	58,900	56,100	53,500	47,800*	80
85	56.8	127.5	54,000	51,600	49,400	44,100*	85
90	54.3	124.0	49,800	47,700	45,700	40,900*	90
95	51.8	120.1	46,000	44,200	42,400	38,000*	95
100	49.2	115.8	42,600	41,000	39,500	35,400*	100
105	46.5	111.2	39,600	38,200	36,900	33,000*	105
110	43.7	106.0	36,900	35,700	34,500	30,900*	110
115	40.6	100.3	34,500	33,300	32,300	28,900*	115
120	37.4	93.9	32,200	31,200	30,300	27,100*	120
125	34.0	86.7	30,200	29,300	28,500	25,400*	125
130	30.1	78.5	28,300	27,500	26,800	23,900*	130
135	25.8	68.7	26,500	25,800	25,200	22,400*	135
140	20.5	56.4	24,900	24,300	23,800	21,100*	140

# 14000 S-3



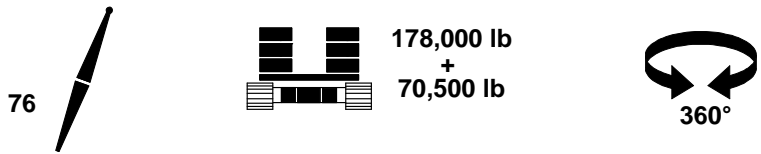
154.2 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
26	82.6	160.6	225,200*				26
28	81.9	160.3	218,900*	177,600*			28
30	81.1	160.0	211,200*	173,400*			30
32	80.4	159.6	197,900*	169,400*	144,600*		32
34	79.6	159.3	186,100*	165,400*	141,700*	124,200*	34
36	78.9	158.8	175,500*	160,400	138,800*	121,700*	36
38	78.1	158.4	166,000*	149,300	133,300*	115,400*	38
40	77.3	157.9	154,500	139,500	126,000*	108,900*	40
42	76.6	157.4	144,100	130,800	119,500*	103,100*	42
44	75.8	156.9	134,900	123,100	112,800	97,800*	44
46	75.0	156.4	126,800	116,100	106,800	92,900*	46
48	74.3	155.8	119,400	109,800	101,400	88,500*	48
50	73.5	155.2	112,800	104,100	96,400	84,400*	50
55	71.5	153.5	98,800	91,800	85,600	75,400*	55
60	69.5	151.7	87,600	81,900	76,700	68,000*	60
65	67.5	149.6	78,400	73,700	69,300	61,700*	65
70	65.5	147.4	70,700	66,700	63,000	56,300*	70
75	63.4	144.9	64,200	60,800	57,600	51,600*	75
80	61.3	142.2	58,600	55,700	52,900	47,500*	80
85	59.2	139.2	53,800	51,200	48,800	43,800*	85
90	56.9	136.0	49,500	47,300	45,200	40,600*	90
95	54.7	132.5	45,700	43,800	41,900	37,700*	95
100	52.3	128.7	42,400	40,600	39,000	35,100*	100
105	49.9	124.5	39,400	37,800	36,400	32,800*	105
110	47.4	120.0	36,700	35,300	34,000	30,600*	110
115	44.8	115.0	34,200	33,000	31,800	28,600*	115
120	42.1	109.6	32,000	30,900	29,800	26,800*	120
125	39.2	103.6	29,900	29,000	28,000	25,200*	125
130	36.1	96.9	28,100	27,200	26,300	23,600*	130
135	32.7	89.4	26,300	25,500	24,800	22,200*	135
140	29.0	80.7	24,700	24,000	23,400	20,900*	140
145	24.7	70.5	23,200	22,600	22,000	19,600*	145
150	19.6	57.7	21,800	21,300	20,800	18,400*	150

# 14000 S-3



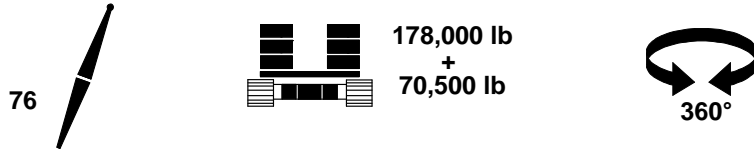
164.0 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
28	82.4	170.3	206,800*				28
30	81.7	170.0	201,800*	161,600*			30
32	81.0	169.6	196,700*	158,300*	133,600*		32
34	80.3	169.3	185,800*	155,100*	131,200*		34
36	79.5	168.9	175,200*	152,000*	128,800*	111,900*	36
38	78.8	168.5	165,700*	148,300	126,500*	110,100*	38
40	78.1	168.0	154,400	138,600	124,200*	108,200*	40
42	77.4	167.6	144,000	130,000	118,100	102,800*	42
44	76.7	167.1	134,800	122,300	111,600	97,500*	44
46	76.0	166.6	126,600	115,400	105,700	92,700*	46
48	75.2	166.0	119,300	109,100	100,300	88,200*	48
50	74.5	165.5	112,700	103,400	95,400	84,100*	50
55	72.7	163.9	98,700	91,300	84,700	75,200*	55
60	70.8	162.2	87,500	81,400	76,000	67,800*	60
65	69.0	160.3	78,300	73,200	68,700	61,400*	65
70	67.1	158.2	70,600	66,300	62,400	56,000*	70
75	65.1	155.9	64,000	60,400	57,100	51,300*	75
80	63.2	153.4	58,400	55,300	52,400	47,200*	80
85	61.2	150.7	53,600	50,900	48,300	43,600*	85
90	59.2	147.7	49,300	46,900	44,700	40,400*	90
95	57.1	144.5	45,600	43,500	41,500	37,500*	95
100	55.0	141.0	42,200	40,300	38,600	34,900*	100
105	52.8	137.3	39,200	37,500	36,000	32,500*	105
110	50.5	133.2	36,500	35,000	33,600	30,400*	110
115	48.2	128.8	34,100	32,700	31,400	28,400*	115
120	45.8	124.0	31,800	30,600	29,500	26,600*	120
125	43.3	118.8	29,800	28,700	27,700	25,000*	125
130	40.6	113.1	27,900	26,900	26,000	23,400*	130
135	37.8	106.7	26,200	25,300	24,500	22,000*	135
140	34.8	99.7	24,600	23,800	23,000	20,700*	140
145	31.5	91.9	23,100	22,400	21,700	19,400*	145
150	27.9	82.8	21,700	21,000	20,400	18,300*	150
155	23.8	72.1	20,400	19,800	19,300	17,200*	155
160	18.8	58.8	19,100	18,600	18,200	16,100*	160

# 14000 S-3



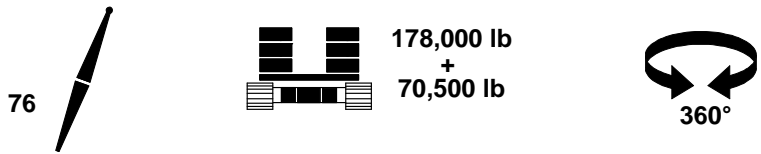
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
28	82.8	180.2	199,400*				28
30	82.1	179.9	194,500*				30
32	81.5	179.6	189,800*	152,500*			32
34	80.8	179.3	185,100*	149,400*	126,400*		34
36	80.1	178.9	174,900*	146,300*	124,000*		36
38	79.5	178.5	165,400*	143,300*	121,800*	100,300*	38
40	78.8	178.1	154,200	137,600	119,500*	100,200*	40
42	78.1	177.7	143,800	129,000	116,700	100,100*	42
44	77.4	177.2	134,600	121,400	110,300	97,200*	44
46	76.8	176.7	126,400	114,600	104,400	92,400*	46
48	76.1	176.2	119,100	108,300	99,100	87,900*	48
50	75.4	175.7	112,500	102,700	94,300	83,800*	50
55	73.7	174.2	98,400	90,600	83,800	74,900*	55
60	72.0	172.6	87,200	80,800	75,100	67,400*	60
65	70.2	170.8	78,000	72,700	67,900	61,100*	65
70	68.4	168.9	70,300	65,800	61,700	55,700*	70
75	66.6	166.7	63,800	59,900	56,400	51,000*	75
80	64.8	164.4	58,200	54,800	51,800	46,900*	80
85	63.0	161.9	53,300	50,400	47,700	43,300*	85
90	61.1	159.1	49,100	46,500	44,100	40,100*	90
95	59.2	156.2	45,300	43,000	40,900	37,200*	95
100	57.2	153.0	41,900	39,900	38,100	34,600*	100
105	55.2	149.6	38,900	37,100	35,500	32,200*	105
110	53.2	145.8	36,200	34,600	33,100	30,100*	110
115	51.1	141.9	33,800	32,300	31,000	28,100*	115
120	48.9	137.5	31,500	30,200	29,000	26,300*	120
125	46.7	132.9	29,500	28,300	27,200	24,700*	125
130	44.3	127.8	27,600	26,600	25,600	23,100*	130
135	41.9	122.4	25,900	24,900	24,000	21,700*	135
140	39.3	116.4	24,300	23,400	22,600	20,400*	140
145	36.6	109.8	22,800	22,000	21,300	19,200*	145
150	33.7	102.5	21,400	20,700	20,000	18,000*	150
155	30.5	94.2	20,100	19,500	18,900	16,900*	155
160	27.0	84.8	18,900	18,300	17,800	15,900*	160
165	23.0	73.7	17,800	17,300	16,800	14,900*	165
170	18.1	59.8	16,700	16,200	15,800	14,000*	170


# 14000 S-3



183.7 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
30	82.6	189.9	177,400*				30
32	81.9	189.6	173,400*	137,400*			32
34	81.3	189.3	169,600*	134,700*			34
36	80.7	188.9	166,000*	132,300*	110,900*		36
38	80.0	188.6	162,400*	129,800*	109,000*	88,500*	38
40	79.4	188.2	154,000	127,400*	107,200*	88,300*	40
42	78.8	187.8	143,600	125,100*	105,400*	88,300*	42
44	78.1	187.3	134,300	120,500	103,700*	88,200*	44
46	77.5	186.9	126,100	113,700	102,000*	88,100*	46
48	76.9	186.4	118,800	107,500	97,900	87,000*	48
50	76.2	185.9	112,100	101,900	93,100	83,300*	50
55	74.6	184.5	98,100	89,900	82,800	74,400*	55
60	73.0	183.0	86,900	80,100	74,200	66,900*	60
65	71.3	181.3	77,600	72,000	67,000	60,600*	65
70	69.7	179.5	69,900	65,200	60,900	55,200*	70
75	68.0	177.5	63,400	59,300	55,600	50,500*	75
80	66.3	175.3	57,800	54,300	51,100	46,400*	80
85	64.5	172.9	52,900	49,900	47,000	42,800*	85
90	62.8	170.4	48,700	46,000	43,500	39,600*	90
95	61.0	167.6	44,900	42,500	40,300	36,700*	95
100	59.2	164.7	41,500	39,400	37,400	34,100*	100
105	57.4	161.5	38,500	36,600	34,800	31,800*	105
110	55.5	158.1	35,800	34,100	32,500	29,600*	110
115	53.5	154.4	33,400	31,800	30,400	27,700*	115
120	51.6	150.5	31,100	29,700	28,400	25,900*	120
125	49.5	146.3	29,100	27,800	26,600	24,200*	125
130	47.4	141.7	27,200	26,100	25,000	22,700*	130
135	45.2	136.8	25,500	24,400	23,400	21,300*	135
140	43.0	131.5	23,900	22,900	22,000	19,900*	140
145	40.6	125.8	22,400	21,500	20,700	18,700*	145
150	38.1	119.5	21,000	20,200	19,500	17,600*	150
155	35.4	112.7	19,700	19,000	18,300	16,500*	155
160	32.6	105.1	18,500	17,900	17,200	15,500*	160
165	29.5	96.5	17,400	16,800	16,200	14,500*	165
170	26.1	86.8	16,300	15,800	15,300	13,600*	170
175	22.2	75.2	15,300	14,800	14,400	12,700*	175
180	17.4	60.8	14,300	13,900	13,500	11,900*	180

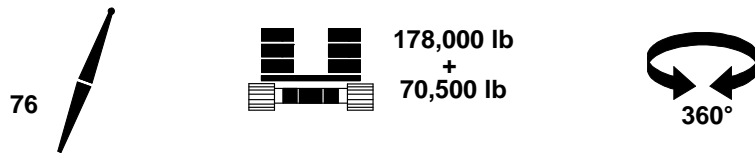
# 14000 S-3



 193.6 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
30	83.0	199.8	170,200*				30
32	82.4	199.5	166,400*				32
34	81.8	199.2	162,800*	129,300*			34
36	81.2	198.9	159,200*	126,800*			36
38	80.6	198.6	155,700*	124,500*	99,300*		38
40	80.0	198.2	152,300*	122,100*	99,100*	78,200*	40
42	79.4	197.8	143,300	119,800*	98,900*	78,100*	42
44	78.7	197.4	134,100	117,600*	98,800*	77,900*	44
46	78.1	197.0	125,900	112,800	97,700*	77,900*	46
48	77.5	196.5	118,500	106,700	96,100*	77,800*	48
50	76.9	196.0	111,900	101,200	92,000	77,700*	50
55	75.4	194.7	97,800	89,200	81,800	74,000*	55
60	73.9	193.3	86,600	79,500	73,300	66,600*	60
65	72.3	191.7	77,300	71,500	66,200	60,300*	65
70	70.7	190.0	69,600	64,700	60,200	54,900*	70
75	69.2	188.1	63,100	58,800	55,000	50,200*	75
80	67.6	186.0	57,500	53,800	50,400	46,100*	80
85	65.9	183.8	52,600	49,400	46,400	42,500*	85
90	64.3	181.4	48,300	45,500	42,900	39,200*	90
95	62.6	178.8	44,600	42,100	39,700	36,400*	95
100	60.9	176.1	41,200	39,000	36,900	33,800*	100
105	59.2	173.1	38,200	36,200	34,300	31,400*	105
110	57.5	170.0	35,500	33,700	32,000	29,300*	110
115	55.7	166.6	33,000	31,400	29,900	27,300*	115
120	53.9	163.0	30,800	29,300	27,900	25,500*	120
125	52.0	159.1	28,800	27,400	26,200	23,900*	125
130	50.1	155.0	26,900	25,700	24,500	22,300*	130
135	48.1	150.5	25,200	24,000	23,000	20,900*	135
140	46.0	145.7	23,600	22,500	21,600	19,600*	140
145	43.9	140.6	22,100	21,100	20,300	18,400*	145
150	41.7	135.1	20,700	19,800	19,000	17,200*	150
155	39.4	129.1	19,400	18,600	17,900	16,100*	155
160	37.0	122.6	18,200	17,500	16,800	15,100*	160
165	34.4	115.5	17,100	16,400	15,800	14,200*	165
170	31.6	107.6	16,000	15,400	14,900	13,300*	170
175	28.6	98.7	15,000	14,500	14,000	12,400*	175
180	25.3	88.6	14,100	13,600	13,100	11,600*	180
185	21.4	76.6	13,100	12,700	12,300	10,800*	185
190	16.8	61.6	12,300	11,900	11,600	10,100*	190

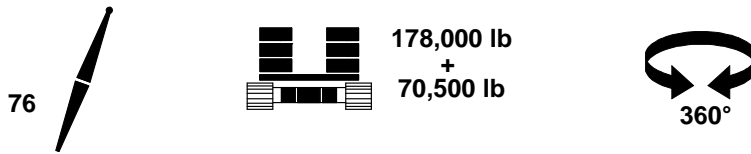


# 14000 S-3



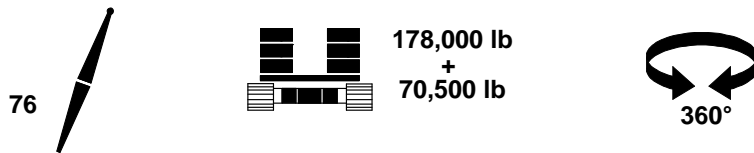
203.4 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
32	82.7	209.5	150,400*				32
34	82.2	209.2	149,000*				34
36	81.6	208.9	147,600*	118,700*			36
38	81.0	208.6	146,100*	117,900*	88,500*		38
40	80.4	208.2	144,100*	115,800*	88,300*		40
42	79.9	207.8	141,000*	113,600*	88,200*	69,300*	42
44	79.3	207.4	133,900	111,400*	87,900*	69,200*	44
46	78.7	207.0	125,700	109,300*	87,800*	69,100*	46
48	78.1	206.6	118,300	106,000	87,700*	69,000*	48
50	77.6	206.1	111,700	100,500	87,500*	68,800*	50
55	76.1	204.9	97,600	88,600	80,900	68,700*	55
60	74.7	203.6	86,400	79,000	72,600	66,300*	60
65	73.2	202.1	77,100	71,000	65,500	60,000*	65
70	71.7	200.4	69,400	64,200	59,500	54,600*	70
75	70.2	198.6	62,900	58,400	54,400	49,900*	75
80	68.7	196.7	57,200	53,400	49,900	45,800*	80
85	67.2	194.6	52,400	49,000	45,900	42,200*	85
90	65.6	192.3	48,100	45,100	42,400	38,900*	90
95	64.1	189.9	44,300	41,700	39,200	36,100*	95
100	62.5	187.3	41,000	38,600	36,400	33,500*	100
105	60.9	184.6	38,000	35,800	33,900	31,100*	105
110	59.2	181.6	35,200	33,300	31,600	29,000*	110
115	57.6	178.5	32,800	31,100	29,400	27,000*	115
120	55.9	175.1	30,600	29,000	27,500	25,200*	120
125	54.1	171.5	28,500	27,100	25,700	23,600*	125
130	52.4	167.7	26,600	25,300	24,100	22,100*	130
135	50.5	163.6	24,900	23,700	22,600	20,600*	135
140	48.7	159.3	23,300	22,200	21,200	19,300*	140
145	46.8	154.6	21,800	20,800	19,900	18,100*	145
150	44.8	149.6	20,400	19,500	18,700	16,900*	150
155	42.7	144.3	19,200	18,300	17,500	15,900*	155
160	40.6	138.5	18,000	17,200	16,400	14,900*	160
165	38.3	132.3	16,800	16,100	15,400	13,900*	165
170	35.9	125.6	15,800	15,100	14,500	13,000*	170
175	33.4	118.2	14,800	14,200	13,600	12,200*	175
180	30.7	110.0	13,800	13,300	12,800	11,400*	180
185	27.8	100.8	12,900	12,400	12,000	10,600*	185
190	24.5	90.4	12,100	11,600	11,200	9,900*	190
195	20.8	78.0	11,300	10,900	10,500	9,200*	195
200	16.2	62.4	10,500	10,100	9,800	8,500*	200

# 14000 S-3



213.3 ft								
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft	
34	82.5	219.1	136,500*				34	
36	82.0	218.8	132,700*	106,700*			36	
38	81.4	218.5	131,400*	106,400*			38	
40	80.9	218.2	130,100*	106,100*	79,000*		40	
42	80.3	217.8	128,800*	105,900*	78,800*		42	
44	79.8	217.5	128,100*	105,500*	78,700*	61,500*	44	
46	79.3	217.1	125,500	103,600*	78,500*	61,400*	46	
48	78.7	216.7	118,100	102,500*	78,300*	61,300*	48	
50	78.2	216.2	111,400	99,700	78,200*	61,200*	50	
55	76.8	215.1	97,400	88,000	77,800*	60,900*	55	
60	75.4	213.8	86,100	78,400	71,700	60,700*	60	
65	74.0	212.3	76,800	70,400	64,700	59,600*	65	
70	72.6	210.8	69,100	63,600	58,800	54,200*	70	
75	71.2	209.1	62,500	57,900	53,700	49,500*	75	
80	69.7	207.3	56,900	52,900	49,200	45,400*	80	
85	68.3	205.3	52,000	48,500	45,300	41,800*	85	
90	66.8	203.1	47,800	44,600	41,800	38,600*	90	
95	65.4	200.9	44,000	41,200	38,700	35,700*	95	
100	63.9	198.4	40,600	38,200	35,900	33,100*	100	
105	62.3	195.8	37,600	35,400	33,300	30,800*	105	
110	60.8	193.0	34,900	32,900	31,000	28,600*	110	
115	59.2	190.1	32,500	30,600	28,900	26,700*	115	
120	57.7	186.9	30,200	28,600	27,000	24,900*	120	
125	56.0	183.6	28,200	26,700	25,300	23,200*	125	
130	54.4	180.1	26,300	24,900	23,600	21,700*	130	
135	52.7	176.3	24,600	23,300	22,100	20,300*	135	
140	51.0	172.3	23,000	21,800	20,700	19,000*	140	
145	49.2	168.0	21,500	20,400	19,400	17,700*	145	
150	47.4	163.4	20,100	19,100	18,200	16,600*	150	
155	45.5	158.6	18,800	17,900	17,100	15,500*	155	
160	43.6	153.4	17,600	16,800	16,000	14,500*	160	
165	41.6	147.9	16,500	15,700	15,000	13,600*	165	
170	39.5	141.9	15,500	14,700	14,100	12,700*	170	
175	37.3	135.4	14,500	13,800	13,200	11,800*	175	
180	35.0	128.4	13,500	12,900	12,300	11,000*	180	
185	32.5	120.8	12,600	12,100	11,500	10,300*	185	
190	29.9	112.3	11,800	11,300	10,800	9,500*	190	
195	27.0	102.9	11,000	10,500	10,100	8,900*	195	
200	23.8	92.1	10,200	9,800	9,400	8,200*	200	
205	20.1	79.3	9,500	9,100	8,800	7,600*	205	
210	15.6	63.2	8,800	8,400	8,100	6,900*	210	

# 14000 S-3

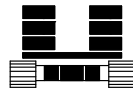


223.1 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
34	82.9	229.1	135,800*				34
36	82.3	228.8	132,000*				36
38	81.8	228.5	130,700*	100,300*			38
40	81.3	228.2	129,400*	100,300*			40
42	80.8	227.8	128,100*	100,200*	73,600*		42
44	80.3	227.5	127,400*	100,200*	73,600*		44
46	79.7	227.1	125,100	100,200*	73,600*	56,900*	46
48	79.2	226.7	117,700	100,100*	73,600*	56,900*	48
50	78.7	226.3	111,000	98,800	73,600*	56,900*	50
55	77.4	225.2	96,900	87,100	73,500*	56,900*	55
60	76.0	224.0	85,600	77,600	70,700	56,800*	60
65	74.7	222.6	76,300	69,600	63,800	56,800*	65
70	73.4	221.1	68,600	62,900	57,900	53,400	70
75	72.0	219.5	62,000	57,100	52,800	48,900	75
80	70.7	217.8	56,400	52,200	48,400	44,800*	80
85	69.3	215.9	51,500	47,800	44,500	41,200*	85
90	67.9	213.9	47,200	44,000	41,000	38,000*	90
95	66.5	211.7	43,400	40,500	37,900	35,100*	95
100	65.1	209.4	40,100	37,500	35,100	32,500*	100
105	63.7	206.9	37,100	34,700	32,600	30,100*	105
110	62.2	204.3	34,300	32,200	30,300	28,000*	110
115	60.7	201.5	31,900	30,000	28,200	26,000*	115
120	59.3	198.6	29,700	27,900	26,300	24,200*	120
125	57.7	195.4	27,600	26,000	24,500	22,600*	125
130	56.2	192.1	25,700	24,300	22,900	21,100*	130
135	54.6	188.6	24,000	22,700	21,400	19,700*	135
140	53.0	184.9	22,400	21,200	20,000	18,300*	140
145	51.4	180.9	20,900	19,800	18,700	17,100*	145
150	49.7	176.7	19,500	18,500	17,500	16,000*	150
155	48.0	172.2	18,300	17,300	16,400	14,900*	155
160	46.2	167.5	17,100	16,200	15,300	13,900*	160
165	44.4	162.4	15,900	15,100	14,300	13,000*	165
170	42.5	157.1	14,900	14,100	13,400	12,100*	170
175	40.5	151.3	13,900	13,200	12,500	11,200*	175
180	38.5	145.1	12,900	12,300	11,700	10,400*	180
185	36.4	138.4	12,100	11,500	10,900	9,700*	185
190	34.1	131.2	11,200	10,700	10,100	9,000*	190
195	31.7	123.3	10,400	9,900	9,400	8,300*	195
200	29.1	114.6	9,700	9,200	8,700	7,600*	200
205	26.3	104.8	8,900	8,500	8,100	7,000*	205
210	23.2	93.7	8,200	7,800	7,500	6,400*	210
215	19.5	80.5	7,600	7,200	6,900	5,800*	215
220	15.1	63.9	6,900	6,600	6,300	5,200*	220

# 14000 S-3



76



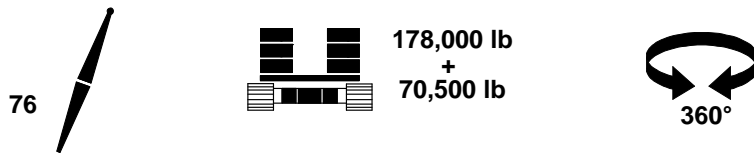
178,000 lb  
+  
70,500 lb



360°

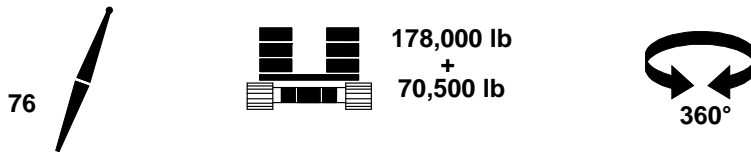
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
36	82.7	238.7	122,600*				36
38	82.2	238.4	122,100*				38
40	81.7	238.1	121,600*	91,100*			40
42	81.2	237.8	121,000*	91,100*	66,700*		42
44	80.7	237.5	120,500*	91,000*	66,700*		44
46	80.2	237.1	119,900*	90,900*	66,700*		46
48	79.7	236.7	118,000	90,900*	66,600*	51,300*	48
50	79.2	236.4	111,300	90,800*	66,600*	51,300*	50
55	77.9	235.3	97,200	87,100	66,600*	51,300*	55
60	76.6	234.1	85,900	77,600	66,500*	51,300*	60
65	75.4	232.8	76,600	69,700	63,600	51,200*	65
70	74.1	231.4	68,900	63,000	57,800	51,200*	70
75	72.8	229.9	62,300	57,200	52,700	48,700	75
80	71.5	228.2	56,700	52,300	48,300	44,800	80
85	70.2	226.4	51,800	47,900	44,500	41,300	85
90	68.9	224.5	47,500	44,100	41,000	38,200*	90
95	67.6	222.4	43,700	40,700	37,900	35,300*	95
100	66.2	220.2	40,400	37,600	35,200	32,700*	100
105	64.9	217.9	37,300	34,900	32,700	30,300*	105
110	63.5	215.4	34,600	32,400	30,400	28,200*	110
115	62.1	212.8	32,200	30,200	28,300	26,300*	115
120	60.7	210.0	29,900	28,100	26,400	24,500*	120
125	59.3	207.0	27,900	26,200	24,700	22,800*	125
130	57.8	203.9	26,000	24,500	23,100	21,300*	130
135	56.3	200.6	24,300	22,900	21,600	19,900*	135
140	54.8	197.1	22,700	21,400	20,200	18,600*	140
145	53.3	193.4	21,200	20,000	18,900	17,300*	145
150	51.7	189.5	19,800	18,700	17,700	16,200*	150
155	50.2	185.4	18,500	17,500	16,500	15,100*	155
160	48.5	181.0	17,300	16,400	15,500	14,100*	160
165	46.8	176.3	16,200	15,300	14,500	13,200*	165
170	45.1	171.4	15,100	14,300	13,600	12,300*	170
175	43.3	166.2	14,100	13,400	12,700	11,500*	175
180	41.5	160.6	13,200	12,500	11,800	10,700*	180
185	39.6	154.6	12,300	11,700	11,100	9,900*	185
190	37.6	148.2	11,500	10,900	10,300	9,200*	190
195	35.5	141.3	10,700	10,100	9,600	8,500*	195
200	33.3	133.9	9,900	9,400	8,900	7,900*	200
205	30.9	125.7	9,200	8,700	8,300	7,200*	205
210	28.4	116.8	8,500	8,100	7,700	6,700*	210
215	25.6	106.7	7,900	7,500	7,100	6,100*	215
220	22.6	95.2	7,200	6,900	6,500	5,500*	220
225	19.0	81.6	6,600	6,300	6,000	5,000*	225

# 14000 S-3



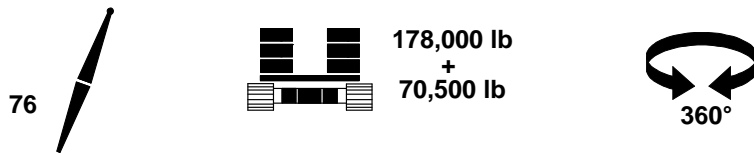
242.8 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
36	83.0	248.7	111,600*				36
38	82.5	248.4	111,100*				38
40	82.0	248.1	110,600*	82,700*			40
42	81.5	247.8	110,000*	82,700*			42
44	81.1	247.5	109,500*	82,600*			44
46	80.6	247.1	109,000*	82,500*	60,100*		46
48	80.1	246.8	108,500*	82,500*	60,100*		48
50	79.6	246.4	108,000*	82,400*	60,100*	45,900*	50
55	78.4	245.4	97,000	82,200*	60,000*	45,900*	55
60	77.2	244.2	85,700	77,000	59,900*	45,800*	60
65	76.0	243.0	76,400	69,100	59,800*	45,800*	65
70	74.8	241.6	68,600	62,500	57,100	45,700*	70
75	73.5	240.2	62,000	56,800	52,100	45,700*	75
80	72.3	238.6	56,400	51,800	47,700	44,100	80
85	71.0	236.9	51,500	47,500	43,900	40,600	85
90	69.8	235.0	47,200	43,700	40,500	37,600	90
95	68.5	233.1	43,400	40,300	37,400	34,800	95
100	67.2	231.0	40,100	37,200	34,700	32,300	100
105	66.0	228.8	37,000	34,500	32,200	30,000*	105
110	64.6	226.4	34,300	32,000	29,900	27,900*	110
115	63.3	223.9	31,900	29,800	27,900	25,900*	115
120	62.0	221.3	29,600	27,700	26,000	24,100*	120
125	60.6	218.5	27,600	25,800	24,200	22,500*	125
130	59.3	215.5	25,700	24,100	22,600	21,000*	130
135	57.9	212.4	24,000	22,500	21,100	19,600*	135
140	56.5	209.1	22,400	21,000	19,800	18,200*	140
145	55.0	205.6	20,900	19,600	18,500	17,000*	145
150	53.6	202.0	19,500	18,400	17,300	15,900*	150
155	52.1	198.1	18,200	17,200	16,100	14,800*	155
160	50.6	194.0	17,000	16,000	15,100	13,800*	160
165	49.0	189.7	15,900	15,000	14,100	12,900*	165
170	47.4	185.2	14,800	14,000	13,200	12,000*	170
175	45.8	180.3	13,800	13,000	12,300	11,100*	175
180	44.1	175.2	12,900	12,200	11,500	10,400*	180
185	42.3	169.8	12,000	11,300	10,700	9,600*	185
190	40.5	164.0	11,200	10,500	9,900	8,900*	190
195	38.7	157.9	10,400	9,800	9,200	8,200*	195
200	36.7	151.3	9,600	9,100	8,500	7,600*	200
205	34.7	144.2	8,900	8,400	7,900	6,900*	205
210	32.5	136.5	8,200	7,800	7,300	6,400*	210
215	30.2	128.1	7,600	7,100	6,700	5,800*	215
220	27.7	118.9	7,000	6,600	6,200	5,200*	220
225	25.0	108.5	6,400	6,000	5,600	4,700*	225
230	22.0	96.7	5,800	5,400	5,100	4,200*	230
235	18.5	82.7	5,200	4,900	4,600		235


# 14000 S-3



252.6 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
38	82.8	258.3	101,300*				38
40	82.3	258.0	100,700*				40
42	81.9	257.7	100,200*	75,200*			42
44	81.4	257.4	99,700*	75,100*			44
46	80.9	257.1	99,200*	75,000*	54,200*		46
48	80.5	256.8	98,700*	74,900*	54,200*		48
50	80.0	256.4	98,200*	74,900*	54,200*	41,000*	50
55	78.9	255.4	96,700	74,700*	54,100*	41,000*	55
60	77.7	254.3	85,400	74,500*	54,000*	41,000*	60
65	76.5	253.1	76,100	68,600	53,900*	40,900*	65
70	75.4	251.8	68,300	61,900	53,800*	40,900*	70
75	74.2	250.4	61,700	56,300	51,400	40,800*	75
80	73.0	248.9	56,100	51,300	47,100	40,800*	80
85	71.8	247.3	51,200	47,000	43,300	39,900	85
90	70.6	245.5	46,900	43,200	39,900	36,900	90
95	69.4	243.7	43,100	39,800	36,900	34,100	95
100	68.2	241.7	39,700	36,800	34,100	31,700	100
105	67.0	239.6	36,700	34,100	31,600	29,400	105
110	65.7	237.3	34,000	31,600	29,400	27,400	110
115	64.5	234.9	31,500	29,300	27,300	25,500	115
120	63.2	232.4	29,300	27,300	25,500	23,800	120
125	61.9	229.8	27,200	25,400	23,700	22,100*	125
130	60.6	227.0	25,300	23,700	22,100	20,600*	130
135	59.3	224.0	23,600	22,100	20,700	19,200*	135
140	57.9	220.9	22,000	20,600	19,300	17,900*	140
145	56.6	217.6	20,500	19,200	18,000	16,700*	145
150	55.2	214.2	19,100	17,900	16,800	15,500*	150
155	53.8	210.5	17,900	16,700	15,700	14,400*	155
160	52.4	206.7	16,700	15,600	14,600	13,400*	160
165	50.9	202.7	15,500	14,600	13,600	12,500*	165
170	49.4	198.4	14,500	13,600	12,700	11,600*	170
175	47.9	194.0	13,500	12,600	11,800	10,800*	175
180	46.4	189.2	12,500	11,800	11,000	10,000*	180
185	44.8	184.2	11,700	10,900	10,200	9,200*	185
190	43.1	179.0	10,800	10,100	9,500	8,500*	190
195	41.4	173.3	10,000	9,400	8,800	7,800*	195
200	39.6	167.4	9,300	8,700	8,100	7,200*	200
205	37.8	161.0	8,600	8,000	7,500	6,600*	205
210	35.9	154.2	7,900	7,400	6,900	6,000*	210
215	33.9	146.9	7,200	6,800	6,300	5,400*	215
220	31.8	139.0	6,600	6,200	5,700	4,900*	220
225	29.5	130.4	6,000	5,600	5,200	4,400*	225
230	27.1	120.9	5,400	5,100	4,700		230
235	24.4	110.3	4,900	4,500	4,200		235
240	21.4	98.1	4,400	4,000			240

# 14000 S-3

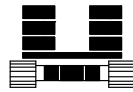


 262.5 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
40	82.6	268.0	91,000*				40
42	82.2	267.7	90,500*				42
44	81.7	267.4	90,000*	68,100*			44
46	81.3	267.1	89,500*	68,100*			46
48	80.8	266.8	89,100*	68,000*	48,800*		48
50	80.4	266.4	88,600*	67,900*	48,700*		50
55	79.3	265.5	87,500*	67,700*	48,600*	36,600*	55
60	78.2	264.4	85,000	67,500*	48,600*	36,500*	60
65	77.1	263.3	75,700	67,300*	48,500*	36,500*	65
70	75.9	262.0	67,900	61,300	48,400*	36,400*	70
75	74.8	260.7	61,300	55,700	48,300*	36,400*	75
80	73.7	259.2	55,700	50,800	46,400	36,300*	80
85	72.5	257.7	50,800	46,500	42,600	36,300*	85
90	71.4	256.0	46,500	42,700	39,200	36,100	90
95	70.2	254.2	42,700	39,300	36,200	33,400	95
100	69.0	252.3	39,300	36,300	33,500	31,000	100
105	67.9	250.3	36,300	33,500	31,000	28,700	105
110	66.7	248.1	33,500	31,100	28,800	26,700	110
115	65.5	245.8	31,100	28,800	26,800	24,800	115
120	64.3	243.4	28,800	26,800	24,900	23,100	120
125	63.0	240.9	26,800	24,900	23,200	21,500	125
130	61.8	238.2	24,900	23,200	21,600	20,100	130
135	60.6	235.4	23,200	21,600	20,100	18,700	135
140	59.3	232.5	21,600	20,100	18,700	17,400*	140
145	58.0	229.4	20,100	18,700	17,400	16,200*	145
150	56.7	226.1	18,700	17,400	16,200	15,000*	150
155	55.4	222.7	17,400	16,200	15,100	14,000*	155
160	54.0	219.1	16,200	15,100	14,100	13,000*	160
165	52.7	215.3	15,100	14,100	13,100	12,000*	165
170	51.3	211.3	14,000	13,100	12,200	11,100*	170
175	49.8	207.1	13,000	12,100	11,300	10,300*	175
180	48.4	202.7	12,100	11,300	10,500	9,500*	180
185	46.9	198.1	11,200	10,400	9,700	8,700*	185
190	45.4	193.2	10,400	9,600	9,000	8,000*	190
195	43.8	188.0	9,600	8,900	8,300	7,400*	195
200	42.2	182.6	8,800	8,200	7,600	6,700*	200
205	40.5	176.8	8,100	7,500	7,000	6,100*	205
210	38.8	170.6	7,400	6,900	6,300	5,500*	210
215	37.0	164.1	6,800	6,300	5,800	5,000*	215
220	35.1	157.1	6,200	5,700	5,200	4,400*	220
225	33.1	149.6	5,600	5,100	4,700		225
230	31.1	141.5	5,000	4,600	4,200		230
235	28.8	132.6	4,500	4,100			235

# 14000 S-3



76



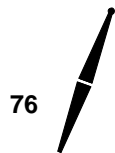
178,000 lb  
+  
70,500 lb



<p>272.3 ft</p>							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
40	82.9	277.9	85,500*				40
42	82.5	277.6	85,100*				42
44	82.0	277.4	84,700*	62,900*			44
46	81.6	277.0	84,300*	62,800*			46
48	81.2	276.7	83,900*	62,800*			48
50	80.8	276.4	83,500*	62,700*	44,600*		50
55	79.7	275.5	82,500*	62,600*	44,600*	33,100*	55
60	78.6	274.5	81,500*	62,500*	44,500*	33,100*	60
65	77.5	273.4	75,300	62,300*	44,400*	33,000*	65
70	76.5	272.2	67,500	60,700	44,400*	33,000*	70
75	75.4	270.9	61,000	55,100	44,300*	33,000*	75
80	74.3	269.5	55,300	50,200	44,300*	33,000*	80
85	73.2	268.0	50,400	45,900	42,000	32,900*	85
90	72.1	266.4	46,100	42,100	38,600	32,900*	90
95	71.0	264.7	42,300	38,800	35,600	32,800	95
100	69.8	262.8	38,900	35,800	32,900	30,300	100
105	68.7	260.9	35,900	33,100	30,500	28,100	105
110	67.6	258.8	33,200	30,600	28,300	26,100	110
115	66.4	256.7	30,700	28,400	26,200	24,200	115
120	65.3	254.4	28,500	26,300	24,400	22,500	120
125	64.1	251.9	26,400	24,400	22,600	21,000	125
130	62.9	249.4	24,500	22,700	21,100	19,500	130
135	61.7	246.7	22,800	21,100	19,600	18,200	135
140	60.5	243.9	21,200	19,700	18,200	16,900	140
145	59.3	241.0	19,700	18,300	17,000	15,700	145
150	58.1	237.9	18,300	17,000	15,800	14,600	150
155	56.8	234.6	17,000	15,800	14,700	13,600*	155
160	55.5	231.2	15,800	14,700	13,600	12,600*	160
165	54.2	227.6	14,700	13,700	12,700	11,600*	165
170	52.9	223.9	13,700	12,700	11,700	10,700*	170
175	51.6	219.9	12,700	11,700	10,900	9,900*	175
180	50.2	215.8	11,700	10,900	10,000	9,100*	180
185	48.8	211.4	10,800	10,000	9,300	8,400*	185
190	47.4	206.9	10,000	9,300	8,500	7,700*	190
195	45.9	202.1	9,200	8,500	7,800	7,000*	195
200	44.4	197.0	8,500	7,800	7,200	6,300*	200
205	42.9	191.7	7,800	7,100	6,500	5,700*	205
210	41.3	186.1	7,100	6,500	5,900	5,200*	210
215	39.7	180.1	6,400	5,900	5,300	4,600*	215
220	38.0	173.8	5,800	5,300	4,800	4,100*	220
225	36.2	167.1	5,200	4,700	4,300		225
230	34.4	159.9	4,700	4,200			230
235	32.5	152.2	4,100				235



# 14000 S-3



178,000 lb  
+  
70,500 lb

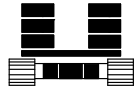


ft	°	ft	0° lb	1° lb	2° lb	ft
42	82.7	287.6	78,400*			42
44	82.3	287.3	78,000*			44
46	81.9	287.0	77,600*	57,500*		46
48	81.5	286.7	77,300*	57,400*		48
50	81.1	286.4	76,900*	57,300*		50
55	80.0	285.5	76,000*	57,200*	40,300*	55
60	79.0	284.5	75,000*	57,100*	40,200*	60
65	78.0	283.5	74,200*	56,900*	40,200*	65
70	76.9	282.3	67,300	56,800*	40,100*	70
75	75.9	281.1	60,700	54,600	40,000*	75
80	74.8	279.7	55,000	49,700	40,000*	80
85	73.8	278.3	50,100	45,500	39,900*	85
90	72.7	276.7	45,800	41,700	38,100	90
95	71.6	275.1	42,000	38,300	35,100	95
100	70.6	273.3	38,600	35,300	32,400	100
105	69.5	271.5	35,600	32,600	30,000	105
110	68.4	269.5	32,800	30,200	27,800	110
115	67.3	267.4	30,400	28,000	25,800	115
120	66.2	265.2	28,100	25,900	23,900	120
125	65.1	262.9	26,100	24,100	22,200	125
130	63.9	260.5	24,200	22,300	20,600	130
135	62.8	257.9	22,500	20,700	19,200	135
140	61.6	255.2	20,900	19,300	17,800	140
145	60.5	252.4	19,400	17,900	16,500	145
150	59.3	249.4	18,000	16,600	15,400	150
155	58.1	246.3	16,700	15,400	14,200	155
160	56.9	243.1	15,500	14,300	13,200	160
165	55.7	239.7	14,400	13,300	12,200	165
170	54.4	236.2	13,300	12,300	11,300	170
175	53.2	232.4	12,300	11,400	10,500	175
180	51.9	228.5	11,400	10,500	9,600	180
185	50.6	224.4	10,500	9,700	8,900	185
190	49.2	220.2	9,700	8,900	8,100	190
195	47.9	215.7	8,900	8,100	7,400	195
200	46.5	211.0	8,100	7,400	6,800	200
205	45.0	206.0	7,400	6,800	6,100	205
210	43.6	200.8	6,700	6,100	5,500	210
215	42.1	195.3	6,100	5,500	5,000	215
220	40.5	189.5	5,500	4,900	4,400	220
225	38.9	183.4	4,900	4,400		225
230	37.2	176.9	4,300			230

# 14000 S-3




76



178,000 lb  
+  
70,500 lb



360°

 292.0 ft			
ft	°	ft	lb
42	83.0	297.5	72,300*
44	82.6	297.2	71,900*
46	82.2	297.0	71,500*
48	81.8	296.7	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	66,900
75	76.4	291.2	60,300
80	75.4	289.9	54,700
85	74.3	288.5	49,700
90	73.3	287.0	45,400
95	72.3	285.4	41,600
100	71.3	283.8	38,200
105	70.2	282.0	35,200
110	69.2	280.1	32,500
115	68.1	278.1	30,000
120	67.0	276.0	27,800
125	66.0	273.7	25,700
130	64.9	271.4	23,800
135	63.8	269.0	22,100
140	62.7	266.4	20,500
145	61.6	263.7	19,000
150	60.4	260.9	17,600
155	59.3	257.9	16,300
160	58.2	254.8	15,100
165	57.0	251.6	14,000
170	55.8	248.2	12,900
175	54.6	244.7	11,900
180	53.4	241.0	11,000
185	52.1	237.1	10,100
190	50.9	233.1	9,300
195	49.6	228.9	8,500
200	48.3	224.4	7,800
205	46.9	219.8	7,000
210	45.6	214.9	6,400
215	44.2	209.8	5,700
220	42.7	204.5	5,100
225	41.3	198.8	4,500
230	39.7	192.9	4,000