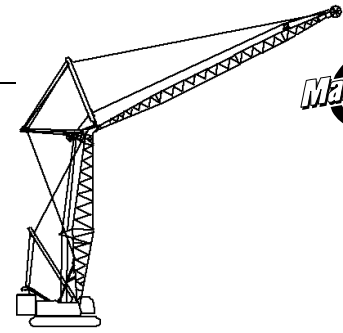


Liftcrane Luffing Jib Capacities

Luffing Jib No. 135 On Boom No. 76
127,000 lb Crane Counterweight
0 lb Carbody Counterweight
360 Degree Rating



14000 SERIES 1



LIFTING CAPACITIES: Lifting capacities for various boom lengths, boom angles, luffing jib lengths, and luffing jib 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 (*).

Luffing Jib Backward Stability: Capacities indicated by (b) require 2,825 lb minimum weight suspended beneath luffing jib point. Capacities indicated by (c) require 7,000 lb minimum weight suspended beneath luffing jib point. Capacities indicated by (d) require 12,000 lb minimum weight suspended beneath luffing jib point. **Caution: Do not luff into areas indicated by (b), (c) or (d) without required minimum weights.** Luffing jib will not luff down and luffing hoist wire rope may overhaul luffing jib and cause luffing hoist to go slack causing wire rope damage or failure.

Lower boom point must be completely removed from 154.2 ft boom length. Lower boom point and wire rope guide assembly **No. 177364** must be completely removed from 164.0 ft boom length. When equipped with boom catwalks, refer to the appropriate raising table for any additional restrictions.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc. beneath boom and luffing jib point sheaves is considered part of luffing jib load. Boom and luffing jib are 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, boom must be maintained at one of the selected angles shown in chart. Refer to luffing jib assembly **No. A18387**, Wire Rope Specification chart **No. 8811-A**, Luffing Jib Raising Procedure chart **No. 8799-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 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 ($^{\circ}$) is angle between horizontal and centerline of boom butt and inserts.



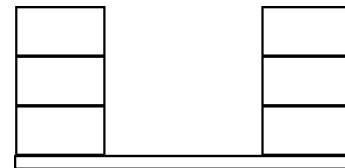
LUFFING JIB ANGLE: Luffing jib angle in degrees ($^{\circ}$) is angle between horizontal and centerline of luffing jib butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



LUFFING JIB POINT ELEVATION: Luffing jib point elevation is vertical distance from ground level to centerline of luffing jib 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, 127,000 lb crane counterweight, and 0 lb carbody counterweight.

Consult chart **No. 8813-A** for lifting off lower boom point with luffing jib attached.

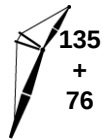


127,000 lb Crane Counterweight
 6 Side Boxes - No Center Box

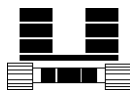
Boom Catwalks Deduct

Deduct 200 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



Boom Length



Luffing Jib Length

Explanation of Symbols (continued)



Boom Angle
(see page 1)



Operating Radius
(see page 1)



Luffing Jib Angle
(see page 1)



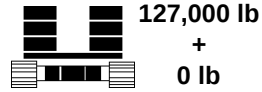
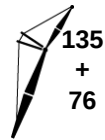
Luffing Jib Point Elevation
(see page 1)



Lifting Capacities
(see page 1)

14000 S-1

ANSI B30.5



65.6 ft



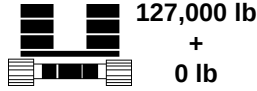
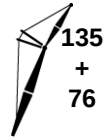
70.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
28	74.8	140.9	118,600 *d							28
30	73.1	140.4	117,900 *c							30
32	71.4	139.7	115,100 *c							32
34	69.7	139.0	112,400 *c							34
36	67.9	138.3	109,900 *c							36
38	66.1	137.4	107,600 *b	70.1	138.7	113,600 *c				38
40	64.3	136.5	105,300 *b	68.4	137.9	111,100 *c				40
45	59.7	133.8	100,200 *b	63.9	135.7	98,900 b	67.0	136.6	96,700 c	45
50	54.8	130.6	88,600 b	59.3	133.0	86,100 b	62.4	134.3	84,200 b	50
55	49.7	126.7	78,300	54.4	129.7	76,100	57.7	131.4	74,400 b	55
60	44.0	122.1	70,000	49.2	125.8	68,000	52.7	127.9	66,500	60
65	37.8	116.3	63,200	43.5	121.0	61,400	47.4	123.7	60,100	65
70	30.5	108.9	57,500	37.2	115.1	55,900	41.5	118.6	54,700	70
75	21.1	98.6	52,600	29.8	107.6	51,200	34.9	112.3	50,100	75
80				20.0	96.8	47,100	27.0	103.9	46,100	80
85							15.7	91.1	42,600	85
90										90
95										95
100										100

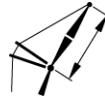


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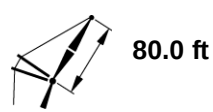
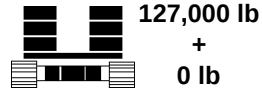
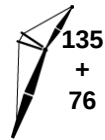


65.6 ft



70.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
28										28
30										30
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55	62.9	133.1	71,600 lb							55
60	58.2	130.3	64,000 lb							60
65	53.3	126.9	57,800							65
70	48.0	122.8	52,600	53.7	125.3	50,600				70
75	42.2	117.8	48,200	48.4	121.2	46,300				75
80	35.7	111.6	44,400	42.7	116.3	42,700	48.7	119.1	41,000	80
85	27.9	103.6	41,000	36.3	110.3	39,500	43.0	114.2	37,900	85
90	17.3	91.6	38,000	28.6	102.4	36,600	36.6	108.2	35,200	90
95				18.3	90.9	34,100	29.0	100.4	32,800	95
100							18.9	89.2	30,600	100

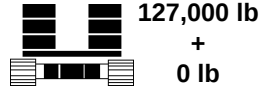
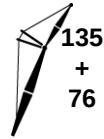


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
32	73.8	150.2	107,000 *c							32
34	72.3	149.6	104,600 *c							34
36	70.8	148.9	102,300 *c							36
38	69.3	148.2	100,100 *b							38
40	67.7	147.4	98,000 *b							40
45	63.8	145.2	93,100 *b	67.4	146.7	98,000 *b				45
50	59.7	142.5	88,400	63.4	144.4	85,800 b	66.1	145.4	83,900 b	50
55	55.5	139.3	78,100	59.4	141.7	75,800	62.1	142.9	74,100 b	55
60	51.0	135.6	69,900	55.1	138.4	67,800	58.0	140.1	66,300	60
65	46.2	131.2	63,100	50.6	134.7	61,200	53.7	136.7	59,800	65
70	41.1	125.9	57,400	45.8	130.2	55,700	49.1	132.7	54,400	70
75	35.3	119.6	52,600	40.6	124.9	51,000	44.2	127.9	49,900	75
80	28.5	111.5	48,400	34.7	118.4	47,000	38.7	122.3	45,900	80
85	19.7	100.3	44,700	27.8	110.1	43,500	32.6	115.3	42,500	85
90				18.7	98.5	40,300	25.2	106.3	39,400	90
95							14.7	92.5	36,700	95
100										100
105										105
110										110

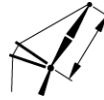


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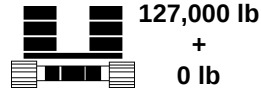
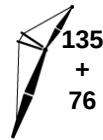


65.6 ft



80.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60	62.6	141.8	63,700 lb							60
65	58.5	139.0	57,500							65
70	54.2	135.6	52,300							70
75	49.6	131.7	47,900	54.5	134.0	46,000				75
80	44.7	127.1	44,100	50.0	130.1	42,400				80
85	39.4	121.5	40,800	45.1	125.6	39,200	50.2	127.9	37,600	85
90	33.3	114.7	37,900	39.8	120.1	36,400	45.3	123.4	34,900	90
95	26.1	106.0	35,300	33.8	113.4	33,900	40.1	118.0	32,500	95
100	16.1	93.0	33,000	26.7	104.9	31,700	34.1	111.4	30,400	100
105				17.1	92.4	29,700	27.1	102.9	28,500	105
110							17.7	90.8	26,700	110



65.6 ft



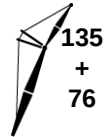
90.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
34	74.3	160.0	91,500 *c							34
36	73.0	159.5	89,700 *c							36
38	71.7	158.8	87,800 *c							38
40	70.3	158.1	86,000 *b							40
45	66.9	156.2	81,800 *b	70.0	157.4	86,000 *b				45
50	63.4	153.9	78,000 *b	66.6	155.4	81,800 *b				50
55	59.8	151.1	74,400 *	63.1	153.1	75,700 b	65.5	154.1	73,900 b	55
60	56.0	148.0	69,700	59.4	150.3	67,700	61.9	151.6	66,100	60
65	52.1	144.4	63,000	55.7	147.1	61,100	58.2	148.7	59,700	65
70	47.9	140.2	57,300	51.7	143.5	55,600	54.4	145.4	54,300	70
75	43.5	135.3	52,500	47.5	139.2	50,900	50.4	141.5	49,700	75
80	38.6	129.6	48,300	43.0	134.3	46,900	46.1	137.1	45,800	80
85	33.2	122.7	44,700	38.2	128.4	43,400	41.5	131.9	42,400	85
90	26.8	114.0	41,600	32.7	121.4	40,300	36.5	125.7	39,400	90
95	18.6	102.0	38,700	26.2	112.5	37,600	30.7	118.2	36,700	95
100				17.6	100.1	35,100	23.7	108.4	34,300	100
105							13.8	93.7	32,100	105
110										110
115										115
120										120



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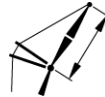
14000 S-1



127,000 lb
+
0 lb

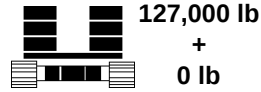
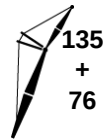


65.6 ft



90.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65	62.3	150.5	57,300							65
70	58.6	147.6	52,100							70
75	54.8	144.4	47,700							75
80	50.8	140.6	44,000	55.1	142.7	42,200				80
85	46.6	136.2	40,700	51.2	139.0	39,000				85
90	42.0	131.1	37,800	46.9	134.6	36,200	51.3	136.8	34,700	90
95	37.0	125.0	35,200	42.4	129.6	33,800	47.1	132.5	32,300	95
100	31.4	117.6	32,900	37.5	123.6	31,600	42.6	127.4	30,200	100
105	24.6	108.2	30,900	31.9	116.4	29,600	37.7	121.5	28,300	105
110	15.2	94.4	29,000	25.2	107.2	27,800	32.1	114.3	26,600	110
115				16.2	93.9	26,100	25.5	105.2	25,000	115
120							16.6	92.3	23,600	120



65.6 ft



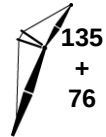
100.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
36	74.7	169.9	84,100 *c							36
38	73.5	169.3	82,300 *c							38
40	72.3	168.7	80,600 *b							40
45	69.3	166.9	76,500 *b							45
50	66.2	164.9	72,800 *b	69.0	166.2	76,500 *b				50
55	63.0	162.5	69,300 *	65.9	164.1	72,800 *				55
60	59.8	159.8	66,100 *	62.8	161.7	67,400	64.9	162.8	65,800	60
65	56.4	156.7	62,700	59.5	159.0	60,800	61.7	160.3	59,400	65
70	52.9	153.1	57,100	56.1	155.8	55,300	58.4	157.4	54,000	70
75	49.2	149.1	52,300	52.6	152.2	50,700	55.0	154.1	49,400	75
80	45.3	144.5	48,100	48.9	148.2	46,600	51.4	150.4	45,500	80
85	41.1	139.2	44,600	44.9	143.5	43,200	47.6	146.1	42,100	85
90	36.6	133.0	41,400	40.7	138.1	40,100	43.6	141.2	39,100	90
95	31.4	125.6	38,600	36.1	131.8	37,400	39.3	135.5	36,500	95
100	25.4	116.3	36,100	30.9	124.2	35,000	34.5	128.9	34,100	100
105	17.6	103.6	33,800	24.8	114.8	32,800	29.1	120.8	32,000	105
110				16.7	101.6	30,800	22.5	110.5	30,100	110
115							13.1	94.9	28,300	115
120										120
125										125
130										130



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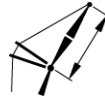
14000 S-1



127,000 lb
+
0 lb

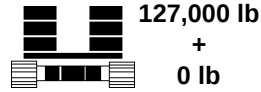
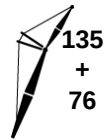


65.6 ft



100.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	62.1	159.1	51,800							70
75	58.8	156.3	47,400							75
80	55.4	153.1	43,700							80
85	51.8	149.4	40,400	55.6	151.4	38,700				85
90	48.1	145.2	37,500	52.1	147.8	35,900				90
95	44.1	140.3	35,000	48.4	143.6	33,500	52.2	145.6	32,000	95
100	39.8	134.8	32,700	44.4	138.8	31,300	48.5	141.4	29,900	100
105	35.1	128.2	30,600	40.1	133.3	29,300	44.6	136.7	28,000	105
110	29.7	120.4	28,800	35.5	126.9	27,500	40.3	131.2	26,300	110
115	23.3	110.3	27,100	30.2	119.1	25,900	35.7	124.8	24,800	115
120	14.4	95.7	25,500	23.9	109.3	24,500	30.4	117.1	23,400	120
125				15.3	95.3	23,100	24.2	107.4	22,000	125
130							15.8	93.7	20,800	130



65.6 ft



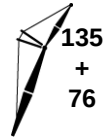
110.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
40	74.0	179.1	75,500 *b							40
45	71.3	177.6	72,300 *b							45
50	68.5	175.7	69,200 *							50
55	65.7	173.6	66,400 *	68.2	175.0	69,200 *				55
60	62.8	171.2	63,600 *	65.4	172.9	66,400 *	67.3	173.7	65,700	60
65	59.8	168.5	60,900 *	62.5	170.4	60,700	64.5	171.5	59,300	65
70	56.7	165.4	57,000	59.5	167.6	55,200	61.6	168.9	53,900	70
75	53.6	161.9	52,200	56.5	164.5	50,600	58.6	166.1	49,400	75
80	50.3	158.0	48,100	53.3	161.0	46,600	55.4	162.8	45,500	80
85	46.8	153.6	44,500	50.0	157.1	43,100	52.2	159.1	42,100	85
90	43.1	148.6	41,400	46.5	152.6	40,100	48.8	155.0	39,100	90
95	39.1	142.8	38,600	42.8	147.5	37,400	45.3	150.4	36,500	95
100	34.8	136.2	36,100	38.8	141.7	35,000	41.5	145.1	34,100	100
105	29.9	128.3	33,900	34.4	135.0	32,800	37.4	139.0	32,000	105
110	24.2	118.5	31,900	29.5	126.9	30,900	32.9	131.9	30,100	110
115	16.8	105.1	30,000	23.6	116.9	29,100	27.7	123.3	28,400	115
120				15.9	103.0	27,400	21.4	112.4	26,800	120
125							12.5	96.0	25,300	125
130										130
135										135
140										140



ANSI B30.5

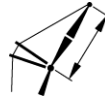
14000 S-1



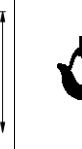
127,000 lb
+
0 lb

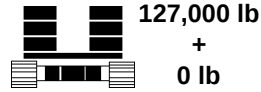
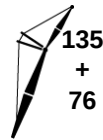


65.6 ft



110.0 ft

	75°			70°			65°			
										
	ft	o	ft	lb	ft	lb	ft	lb	ft	lb
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	61.9	167.8	47,300							75
80	58.9	165.0	43,600							80
85	55.8	161.7	40,300							85
90	52.6	158.1	37,500	56.0	160.1	35,800				90
95	49.2	154.1	34,900	52.8	156.5	33,400				95
100	45.7	149.5	32,700	49.5	152.5	31,200	53.0	154.3	29,800	100
105	41.9	144.3	30,600	46.0	148.0	29,300	49.6	150.3	28,000	105
110	37.9	138.3	28,800	42.2	142.8	27,500	46.1	145.8	26,300	110
115	33.4	131.3	27,100	38.2	136.9	25,900	42.4	140.7	24,700	115
120	28.3	122.9	25,600	33.8	130.0	24,500	38.4	134.8	23,300	120
125	22.2	112.3	24,200	28.7	121.8	23,100	34.0	128.0	22,100	125
130	13.8	96.9	22,900	22.7	111.4	21,900	29.0	119.8	20,900	130
135				14.6	96.6	20,700	23.0	109.5	19,800	135
140							15.0	95.1	18,700	140



65.6 ft



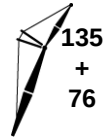
120.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
45	72.9	188.1	67,000 *b							45
50	70.4	186.4	64,000 *							50
55	67.8	184.5	61,300 *	70.1	185.7	64,000 *				55
60	65.2	182.3	58,700 *	67.6	183.8	61,200 *				60
65	62.5	179.9	56,200 *	65.0	181.6	58,700 *	66.7	182.5	59,000	65
70	59.8	177.1	53,900 *	62.3	179.1	55,000	64.1	180.2	53,600	70
75	57.0	174.1	51,600 *	59.6	176.3	50,300	61.4	177.6	49,100	75
80	54.1	170.6	47,900	56.8	173.2	46,300	58.7	174.7	45,200	80
85	51.1	166.8	44,300	53.9	169.7	42,900	55.8	171.5	41,800	85
90	48.0	162.6	41,200	50.8	165.9	39,800	52.9	167.9	38,800	90
95	44.7	157.8	38,400	47.7	161.6	37,100	49.8	163.9	36,200	95
100	41.2	152.4	35,900	44.4	156.8	34,700	46.6	159.5	33,800	100
105	37.4	146.3	33,700	40.8	151.3	32,600	43.3	154.4	31,700	105
110	33.3	139.2	31,700	37.1	145.1	30,600	39.7	148.8	29,800	110
115	28.6	130.9	29,900	32.9	138.0	28,900	35.7	142.3	28,100	115
120	23.2	120.6	28,200	28.2	129.5	27,300	31.4	134.8	26,600	120
125	16.1	106.6	26,700 *	22.6	119.0	25,800	26.5	125.8	25,100	125
130				15.3	104.4	24,400	20.5	114.3	23,800	130
135							12.0	97.1	22,500	135
140										140
145										145
150										150



ANSI B30.5

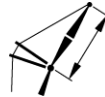
14000 S-1



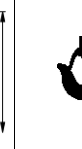
127,000 lb
+
0 lb

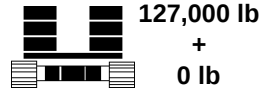
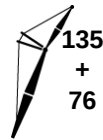


65.6 ft



120.0 ft

	75°			70°			65°			
										
	ft	°	ft	lb	ft	lb	ft	lb	ft	°
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	61.7	176.5	43,300							80
85	59.0	173.6	40,000							85
90	56.1	170.4	37,100							90
95	53.2	166.9	34,600	56.4	168.8	33,100				95
100	50.2	162.9	32,400	53.5	165.3	30,900				100
105	47.0	158.5	30,300	50.4	161.4	29,000				105
110	43.6	153.6	28,500	47.3	157.0	27,200	50.6	159.2	25,900	110
115	40.1	148.0	26,900	43.9	152.1	25,600	47.4	154.8	24,400	115
120	36.2	141.6	25,400	40.4	146.6	24,200	44.1	149.9	23,000	120
125	31.9	134.2	24,000	36.5	140.3	22,900	40.5	144.5	21,800	125
130	27.1	125.4	22,700	32.3	133.0	21,600	36.7	138.2	20,600	130
135	21.2	114.3	21,500	27.5	124.3	20,500	32.5	130.9	19,500	135
140	13.2	98.1	20,400	21.8	113.4	19,400	27.7	122.3	18,500	140
145				14.0	97.9	18,400	22.0	111.5	17,500	145
150							14.4	96.3	16,600	150



65.6 ft



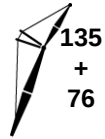
130.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	74.2	198.5	52,900 *b							45
50	71.9	197.0	51,700 *							50
55	69.6	195.2	50,600 *							55
60	67.2	193.3	49,500 *	69.4	194.5	50,700 *				60
65	64.8	191.0	48,100 *	67.0	192.5	49,700 *				65
70	62.4	188.6	46,200 *	64.6	190.3	48,100 *	66.2	191.2	49,400 *	70
75	59.8	185.8	44,300 *	62.1	187.8	46,100 *	63.8	188.9	47,500 *	75
80	57.3	182.7	42,400 *	59.6	185.0	44,200 *	61.3	186.3	45,000	80
85	54.6	179.4	40,700 *	57.0	181.9	42,400 *	58.8	183.4	41,600	85
90	51.8	175.6	39,000 *	54.3	178.5	39,600	56.2	180.2	38,600	90
95	49.0	171.5	37,500 *	51.6	174.7	36,900	53.5	176.7	36,000	95
100	46.0	166.9	35,700	48.7	170.5	34,500	50.7	172.8	33,600	100
105	42.8	161.8	33,500	45.7	165.9	32,400	47.8	168.5	31,500	105
110	39.5	156.1	31,500	42.5	160.7	30,500	44.7	163.7	29,700	110
115	35.9	149.6	29,700	39.2	155.0	28,700	41.5	158.3	27,900	115
120	31.9	142.2	28,100	35.5	148.4	27,100	38.0	152.3	26,400	120
125	27.5	133.4	26,600	31.6	140.9	25,600	34.3	145.5	24,900	125
130	22.2	122.6	25,200	27.1	132.0	24,300	30.2	137.5	23,600	130
135	15.4	107.9	23,700 *	21.7	120.9	23,000	25.4	128.1	22,400	135
140				14.7	105.7	21,900	19.7	116.0	21,300	140
145							11.5	98.1	20,200	145
150										150
155										155
160										160



ANSI B30.5

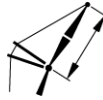
14000 S-1



127,000 lb
+
0 lb

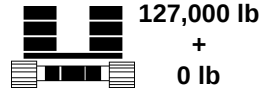
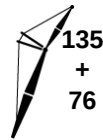


65.6 ft



130.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	61.6	185.1	39,800							85
90	59.1	182.3	36,900							90
95	56.5	179.1	34,400							95
100	53.8	175.6	32,100	56.7	177.5	30,700				100
105	51.0	171.8	30,100	54.0	174.0	28,700				105
110	48.1	167.5	28,300	51.2	170.2	27,000				110
115	45.0	162.8	26,700	48.3	166.0	25,400	51.3	168.0	24,200	115
120	41.8	157.5	25,200	45.3	161.3	24,000	48.4	163.8	22,800	120
125	38.4	151.6	23,800	42.1	156.0	22,700	45.4	159.1	21,500	125
130	34.7	144.8	22,500	38.7	150.2	21,400	42.2	153.9	20,400	130
135	30.6	137.0	21,400	35.0	143.5	20,300	38.9	148.1	19,300	135
140	26.0	127.8	20,300	31.0	135.8	19,300	35.2	141.4	18,300	140
145	20.4	116.1	19,300	26.4	126.7	18,300	31.2	133.8	17,400	145
150	12.6	99.2	18,300	20.9	115.2	17,400	26.6	124.7	16,500	150
155				13.4	99.1	16,500	21.2	113.4	15,700	155
160							13.8	97.6	14,900	160



65.6 ft



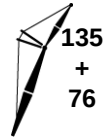
140.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
50	73.3	207.5	48,500 *							50
55	71.1	205.9	47,500 *							55
60	68.9	204.0	46,400 *	70.9	205.1	47,500 *				60
65	66.7	202.0	44,400 *	68.7	203.3	46,200 *				65
70	64.5	199.7	42,400 *	66.5	201.2	44,300 *				70
75	62.2	197.2	40,600 *	64.3	199.0	42,400 *	65.8	199.9	43,600 *	75
80	59.8	194.4	38,800 *	62.0	196.4	40,600 *	63.5	197.5	41,800 *	80
85	57.5	191.4	37,100 *	59.6	193.6	38,800 *	61.2	194.9	40,000 *	85
90	55.0	188.1	35,600 *	57.2	190.6	37,200 *	58.9	192.0	38,300	90
95	52.5	184.4	34,000 *	54.8	187.2	35,600 *	56.4	188.9	35,700	95
100	49.8	180.4	32,600 *	52.2	183.5	34,100 *	53.9	185.4	33,400	100
105	47.1	175.9	31,200 *	49.6	179.4	32,100	51.4	181.6	31,300	105
110	44.2	171.0	29,900 *	46.8	174.9	30,200	48.7	177.4	29,400	110
115	41.2	165.6	28,700 *	44.0	170.0	28,500	45.9	172.8	27,700	115
120	38.0	159.6	27,500 *	40.9	164.6	26,900	43.0	167.7	26,100	120
125	34.5	152.8	26,400	37.7	158.4	25,400	39.9	162.0	24,700	125
130	30.7	145.0	25,000	34.2	151.6	24,100	36.6	155.7	23,400	130
135	26.5	135.8	23,700	30.4	143.6	22,800	33.0	148.5	22,200	135
140	21.4	124.5	22,500	26.1	134.3	21,700	29.0	140.2	21,000	140
145	14.9	109.3	21,000 *	20.9	122.8	20,600	24.5	130.3	20,000	145
150				14.1	107.0	19,600	19.0	117.7	19,000	150
155							11.1	99.1	18,100	155
160										160
165										165
170										170



ANSI B30.5

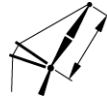
14000 S-1



127,000 lb
+
0 lb

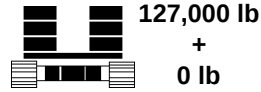
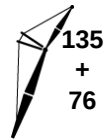


65.6 ft



140.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	61.5	193.8	36,600							90
95	59.1	190.9	34,100							95
100	56.7	187.8	31,800							100
105	54.2	184.4	29,800	56.9	186.2	28,400				105
110	51.7	180.6	28,000	54.4	182.7	26,700				110
115	49.0	176.4	26,400	51.9	179.0	25,100				115
120	46.2	171.9	24,900	49.2	174.9	23,700	52.0	176.8	22,500	120
125	43.3	166.8	23,500	46.5	170.4	22,300	49.3	172.7	21,200	125
130	40.3	161.2	22,200	43.6	165.4	21,100	46.6	168.2	20,000	130
135	37.0	155.0	21,100	40.5	159.8	20,000	43.7	163.2	19,000	135
140	33.4	147.9	20,000	37.2	153.6	19,000	40.6	157.7	18,000	140
145	29.5	139.7	19,000	33.7	146.6	18,000	37.4	151.5	17,100	145
150	25.0	130.0	18,100	29.8	138.5	17,100	33.9	144.5	16,200	150
155	19.7	117.9	17,200	25.4	129.0	16,300	30.0	136.5	15,400	155
160	12.2	100.3	16,300	20.1	117.1	15,500	25.6	127.1	14,700	160
165				12.9	100.2	14,700	20.4	115.3	13,900	165
170							13.3	98.8	13,200	170



65.6 ft



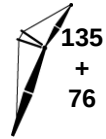
150.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50	74.4	217.9	45,400 *							50
55	72.4	216.4	44,400 *							55
60	70.4	214.7	42,900 *							60
65	68.4	212.8	41,000 *	70.2	214.0	42,800 *				65
70	66.3	210.7	39,200 *	68.2	212.1	40,900 *				70
75	64.2	208.4	37,400 *	66.1	210.0	39,200 *	67.5	210.8	40,200 *	75
80	62.0	205.9	35,800 *	64.0	207.6	37,400 *	65.4	208.6	38,500 *	80
85	59.9	203.1	34,200 *	61.8	205.1	35,800 *	63.3	206.2	36,900 *	85
90	57.6	200.1	32,600 *	59.7	202.3	34,200 *	61.1	203.6	35,300 *	90
95	55.3	196.8	31,100 *	57.4	199.2	32,600 *	58.9	200.7	33,700 *	95
100	53.0	193.1	29,800 *	55.1	195.9	31,200 *	56.7	197.6	32,200 *	100
105	50.5	189.2	28,400 *	52.8	192.2	29,700 *	54.4	194.1	30,700 *	105
110	48.0	184.9	27,200 *	50.3	188.3	28,500 *	52.0	190.4	29,300 *	110
115	45.4	180.2	25,900 *	47.8	183.9	27,100 *	49.5	186.3	27,600 *	115
120	42.7	175.0	24,800 *	45.2	179.2	25,900 *	47.0	181.8	26,000 *	120
125	39.8	169.3	23,700 *	42.4	174.0	24,800 *	44.3	176.9	24,600 *	125
130	36.7	163.0	22,700 *	39.5	168.2	23,700 *	41.5	171.6	23,300 *	130
135	33.3	155.8	21,700 *	36.4	161.8	22,700 *	38.5	165.6	22,100 *	135
140	29.7	147.7	20,800 *	33.0	154.6	21,600 *	35.3	158.9	21,000 *	140
145	25.6	138.1	19,900 *	29.3	146.3	20,500 *	31.9	151.4	19,900 *	145
150	20.7	126.4	19,200 *	25.2	136.6	19,600 *	28.0	142.7	19,000 *	150
155	14.3	110.6	18,600 *	20.2	124.6	18,600 *	23.7	132.4	18,100 *	155
160				13.6	108.2	17,700 *	18.3	119.4	17,200 *	160
165							10.7	100.1	16,400 *	165
170										170
175										175
180										180



ANSI B30.5

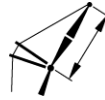
14000 S-1



127,000 lb
+
0 lb

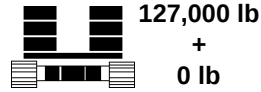
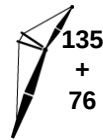


65.6 ft



150.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	61.4	202.5	34,000							95
100	59.2	199.6	31,700							100
105	56.9	196.5	29,700							105
110	54.6	193.1	27,900	57.1	194.8	26,600				110
115	52.2	189.4	26,300	54.8	191.5	25,000				115
120	49.8	185.3	24,800	52.4	187.8	23,600				120
125	47.2	180.9	23,400	50.0	183.8	22,200	52.5	185.6	21,100	125
130	44.6	176.1	22,200	47.4	179.4	21,000	50.1	181.6	19,900	130
135	41.8	170.7	21,000	44.8	174.6	19,900	47.6	177.2	18,900	135
140	38.8	164.8	19,900	42.0	169.3	18,900	44.9	172.4	17,900	140
145	35.7	158.3	18,900	39.1	163.4	17,900	42.1	167.1	17,000	145
150	32.3	150.9	18,000	35.9	156.9	17,100	39.2	161.3	16,100	150
155	28.5	142.3	17,100	32.5	149.6	16,200	36.1	154.8	15,300	155
160	24.2	132.2	16,300	28.8	141.1	15,500	32.7	147.5	14,600	160
165	19.0	119.6	15,600	24.5	131.2	14,700	29.0	139.1	13,900	165
170	11.8	101.4	14,800	19.4	118.8	14,000	24.7	129.3	13,200	170
175				12.5	101.3	13,300	19.7	117.0	12,600	175
180							12.9	99.9	12,000	180



65.6 ft



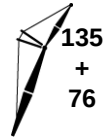
160.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55	73.5	226.8	41,200 *							55
60	71.7	225.3	39,300 *							60
65	69.8	223.5	37,500 *							65
70	67.9	221.6	35,900 *	69.6	222.8	37,500 *				70
75	65.9	219.4	34,200 *	67.7	220.9	35,700 *				75
80	63.9	217.1	32,600 *	65.7	218.7	34,100 *	67.0	219.6	35,200 *	80
85	61.9	214.6	31,000 *	63.7	216.3	32,500 *	65.1	217.3	33,500 *	85
90	59.9	211.8	29,500 *	61.7	213.8	30,900 *	63.1	214.9	32,000 *	90
95	57.8	208.7	28,100 *	59.7	210.9	29,500 *	61.1	212.2	30,500 *	95
100	55.6	205.5	26,700 *	57.6	207.9	28,100 *	59.0	209.4	29,000 *	100
105	53.4	201.9	25,400 *	55.4	204.6	26,700 *	56.9	206.2	27,700 *	105
110	51.2	198.0	24,200 *	53.2	201.0	25,400 *	54.7	202.8	26,300 *	110
115	48.8	193.8	23,000 *	51.0	197.1	24,100 *	52.5	199.2	25,100 *	115
120	46.4	189.3	21,900 *	48.6	192.9	23,000 *	50.2	195.2	23,800 *	120
125	43.9	184.3	20,800 *	46.2	188.3	21,800 *	47.8	190.8	22,700 *	125
130	41.2	178.9	19,800 *	43.6	183.3	20,800 *	45.4	186.1	21,600 *	130
135	38.4	172.9	18,800 *	41.0	177.8	19,800 *	42.8	180.9	20,500 *	135
140	35.5	166.2	17,900 *	38.2	171.7	18,800 *	40.1	175.3	19,500 *	140
145	32.2	158.8	17,000 *	35.2	165.0	17,900 *	37.2	169.0	18,600 *	145
150	28.7	150.3	16,200 *	31.9	157.5	17,000 *	34.2	162.1	17,700 *	150
155	24.7	140.3	15,400 *	28.4	148.9	16,300 *	30.8	154.2	16,800 *	155
160	20.0	128.2	14,800 *	24.3	138.8	15,500 *	27.1	145.2	16,000 *	160
165	13.9	111.8	14,100 *	19.6	126.4	14,800 *	22.9	134.5	15,200 *	165
170				13.2	109.4	14,000 *	17.7	121.0	14,700 *	170
175							10.4	101.0	13,800 *	175
180										180
185										185
190										190



ANSI B30.5

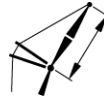
14000 S-1



127,000 lb
+
0 lb

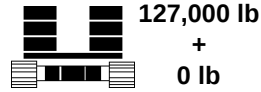
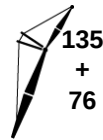


65.6 ft



160.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	61.3	211.1	30,500 *							100
105	59.2	208.3	29,100 *							105
110	57.1	205.2	27,600							110
115	55.0	201.8	26,000	57.3	203.5	24,700				115
120	52.8	198.1	24,500	55.1	200.2	23,200				120
125	50.5	194.2	23,100	52.9	196.5	21,900				125
130	48.1	189.9	21,900	50.7	192.6	20,700				130
135	45.7	185.2	20,700	48.3	188.3	19,600	50.8	190.4	18,600	135
140	43.1	180.1	19,600	45.9	183.7	18,600	48.4	186.1	17,600	140
145	40.4	174.5	18,700	43.3	178.6	17,600	46.0	181.5	16,700	145
150	37.6	168.3	17,700	40.6	173.0	16,800	43.4	176.5	15,800	150
155	34.5	161.4	16,900	37.8	166.9	15,900	40.7	170.9	15,000	155
160	31.2	153.7	16,100	34.8	160.1	15,200	37.9	164.8	14,300	160
165	27.6	144.8	15,300	31.5	152.4	14,400	34.9	158.0	13,600	165
170	23.4	134.3	14,600	27.9	143.7	13,800	31.6	150.4	12,900	170
175	18.4	121.2	13,900	23.8	133.3	13,100	28.0	141.7	12,300	175
180	11.4	102.4	13,300	18.8	120.5	12,500	23.9	131.4	11,700	180
185				12.1	102.4	11,900	19.1	118.7	11,200	185
190							12.5	101.0	10,600	190



65.6 ft



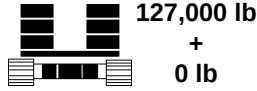
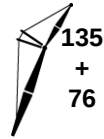
170.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55	74.5	237.2	38,000 *							55
60	72.8	235.8	36,300 *							60
65	71.0	234.1	34,700 *							65
70	69.2	232.3	33,100 *	70.8	233.4	34,500 *				70
75	67.4	230.3	31,400 *	69.1	231.6	32,900 *				75
80	65.6	228.2	30,000 *	67.2	229.6	31,300 *				80
85	63.7	225.8	28,500 *	65.4	227.4	29,900 *	66.6	228.3	30,800 *	85
90	61.8	223.2	27,000 *	63.5	225.0	28,400 *	64.8	226.0	29,400 *	90
95	59.9	220.4	25,600 *	61.6	222.4	27,000 *	62.9	223.6	27,900 *	95
100	57.9	217.4	24,400 *	59.7	219.6	25,600 *	61.0	220.9	26,600 *	100
105	55.9	214.1	23,100 *	57.7	216.6	24,300 *	59.1	218.0	25,200 *	105
110	53.8	210.6	21,900 *	55.7	213.3	23,100 *	57.1	214.9	24,000 *	110
115	51.7	206.8	20,800 *	53.6	209.7	21,900 *	55.0	211.6	22,700 *	115
120	49.5	202.7	19,700 *	51.5	205.9	20,700 *	53.0	207.9	21,600 *	120
125	47.3	198.3	18,700 *	49.3	201.8	19,600 *	50.8	204.0	20,400 *	125
130	44.9	193.5	17,700 *	47.1	197.3	18,600 *	48.6	199.8	19,300 *	130
135	42.5	188.3	16,700 *	44.7	192.5	17,600 *	46.3	195.2	18,300 *	135
140	40.0	182.6	15,800 *	42.3	187.2	16,700 *	43.9	190.2	17,400 *	140
145	37.2	176.3	15,000 *	39.7	181.5	15,800 *	41.5	184.8	16,500 *	145
150	34.4	169.4	14,200 *	37.0	175.1	15,000 *	38.9	178.9	15,500 *	150
155	31.3	161.6	13,400 *	34.1	168.1	14,200 *	36.1	172.3	14,700 *	155
160	27.8	152.8	12,500 *	31.0	160.3	13,400 *	33.1	165.1	14,000 *	160
165	24.0	142.5	11,700 *	27.5	151.4	12,400 *	29.9	156.9	13,100 *	165
170	19.4	129.9	10,800 *	23.6	140.9	11,600 *	26.3	147.6	12,200 *	170
175	13.5	113.0	10,100 *	19.0	128.1	10,800 *	22.2	136.5	11,300 *	175
180				12.8	110.5	10,000 *	17.2	122.5	10,600 *	180
185							10.0	101.9	9,800 *	185
190										190
195										195
200										200

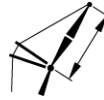


ANSI B30.5

14000 S-1

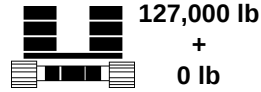
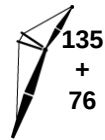


65.6 ft



170.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	61.2	219.8	26,600 *							105
110	59.3	216.9	25,300 *							110
115	57.3	213.8	24,000 *							115
120	55.3	210.5	22,800 *	57.5	212.2	23,000				120
125	53.2	206.9	21,600 *	55.4	208.9	21,700				125
130	51.1	203.0	20,600 *	53.4	205.3	20,500				130
135	48.9	198.8	19,500 *	51.2	201.4	19,400				135
140	46.6	194.3	18,500 *	49.0	197.2	18,400	51.3	199.2	17,300	140
145	44.2	189.3	17,500 *	46.8	192.7	17,400	49.1	195.1	16,400	145
150	41.7	184.0	16,600 *	44.4	187.8	16,500	46.9	190.6	15,600	150
155	39.1	178.1	15,700 *	41.9	182.5	15,700	44.5	185.7	14,800	155
160	36.4	171.6	14,900 *	39.4	176.7	14,900	42.1	180.4	14,100	160
165	33.4	164.5	14,100 *	36.6	170.3	14,200	39.5	174.6	13,400	165
170	30.3	156.4	13,300 *	33.7	163.2	13,500	36.7	168.2	12,700	170
175	26.7	147.2	12,300 *	30.5	155.2	12,900	33.8	161.1	12,100	175
180	22.7	136.4	11,500 *	27.0	146.1	12,300	30.7	153.2	11,500	180
185	17.8	122.8	10,700 *	23.0	135.4	11,500 *	27.2	144.1	11,000	185
190	11.1	103.4	9,900 *	18.3	122.1	10,700 *	23.2	133.5	10,400	190
195				11.7	103.4	10,000 *	18.5	120.4	9,900	195
200							12.1	102.1	9,500	200



75.5 ft



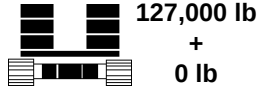
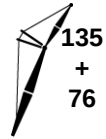
70.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
30	73.6	150.4	115,900 *c							30
32	71.8	149.7	115,200 *c							32
34	70.1	149.1	112,600 *c							34
36	68.4	148.3	110,100 *c							36
38	66.6	147.5	107,700 *c							38
40	64.8	146.6	105,500 *b	69.4	148.1	112,100 *c				40
45	60.2	143.9	100,400 *b	65.0	146.1	98,500 b				45
50	55.3	140.8	88,600 b	60.4	143.5	85,700 b	64.0	144.8	83,500 b	50
55	50.2	137.0	78,300	55.6	140.4	75,700 b	59.4	142.1	73,800 b	55
60	44.6	132.4	70,100	50.4	136.6	67,700	54.5	138.9	66,000 b	60
65	38.5	126.8	63,200	44.9	132.0	61,200	49.3	134.9	59,600	65
70	31.3	119.6	57,500	38.8	126.4	55,600	43.6	130.2	54,200	70
75	22.2	109.7	52,700	31.7	119.4	51,000	37.3	124.3	49,600	75
80	4.3	88.4	44,200 *	22.7	109.6	46,900	29.9	116.8	45,700	80
85				6.3	90.3	43,200	20.2	106.1	42,200	85
90										90
95										95
100										100
105										105

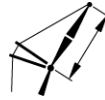


ANSI B30.5

14000 S-1



75.5 ft

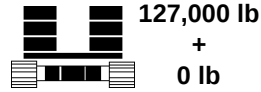
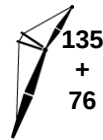


70.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
30										30
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60	60.7	141.3	63,100 b							60
65	55.8	138.2	56,900 b							65
70	50.7	134.5	51,800	57.0	136.9	49,400 b				70
75	45.2	130.0	47,500	52.0	133.3	45,300				75
80	39.1	124.5	43,700	46.6	129.0	41,700				80
85	32.1	117.5	40,400	40.7	123.8	38,600	47.7	127.2	36,700	85
90	23.3	108.0	37,500	33.9	117.2	35,800	41.9	122.2	34,100	90
95	8.1	90.2	34,800	25.7	108.5	33,300	35.4	115.9	31,800	95
100				13.5	94.4	31,100	27.5	107.8	29,700	100
105							16.6	95.4	27,800	105

14000 S-1

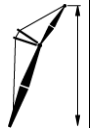
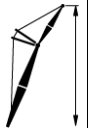
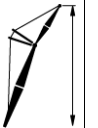
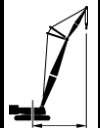
ANSI B30.5



75.5 ft



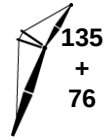
80.0 ft

	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32	74.2	160.2	105,600 *c							32
34	72.7	159.6	104,600 *c							34
36	71.2	158.9	102,300 *c							36
38	69.7	158.2	100,100 *c							38
40	68.1	157.5	98,000 *b							40
45	64.2	155.2	93,100 *b	68.3	156.9	98,200 b				45
50	60.2	152.6	88,400 b	64.4	154.7	85,400 b	67.4	155.8	83,200 b	50
55	55.9	149.5	78,200	60.4	152.1	75,500 b	63.5	153.5	73,500 b	55
60	51.5	145.8	69,900	56.1	149.0	67,500	59.4	150.8	65,700 b	60
65	46.8	141.5	63,100	51.7	145.4	60,900	55.2	147.6	59,300	65
70	41.6	136.4	57,400	47.0	141.1	55,400	50.7	143.8	54,000	70
75	35.9	130.1	52,600	41.9	136.0	50,800	45.9	139.4	49,400	75
80	29.2	122.3	48,400	36.2	129.8	46,800	40.7	134.0	45,500	80
85	20.8	111.6	44,800	29.6	122.1	43,300	34.8	127.6	42,100	85
90	4.0	88.8	38,200 *	21.2	111.6	40,200	27.9	119.4	39,100	90
95				5.9	90.9	37,300	18.9	107.8	36,400	95
100										100
105										105
110										110
115										115



ANSI B30.5

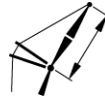
14000 S-1



127,000 lb
+
0 lb

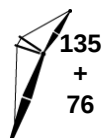


75.5 ft



80.0 ft

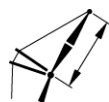
	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65	60.6	150.0	56,600 lb							65
70	56.4	146.9	51,500							70
75	52.0	143.3	47,200	57.4	145.5	44,900				75
80	47.3	139.0	43,400	53.1	142.1	41,400				80
85	42.2	134.0	40,200	48.4	138.0	38,300				85
90	36.5	127.9	37,300	43.4	133.1	35,500	49.4	136.2	33,800	90
95	30.0	120.3	34,800	38.0	127.3	33,100	44.5	131.5	31,500	95
100	21.8	109.9	32,500	31.7	120.1	30,900	39.1	125.9	29,400	100
105	7.6	90.9	30,300	24.0	110.7	29,000	33.0	119.0	27,500	105
110				12.6	95.6	27,200	25.7	110.1	25,900	110
115							15.5	96.9	24,300	115



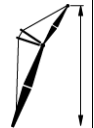
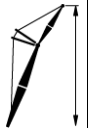
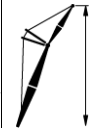
127,000 lb
+
0 lb



75.5 ft



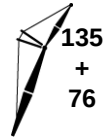
90.0 ft

	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34	74.7	170.0	91,400 *c							34
36	73.3	169.4	89,500 *c							36
38	72.0	168.8	87,700 *c							38
40	70.7	168.1	86,000 *b							40
45	67.2	166.2	81,800 *b	70.8	167.6	86,500 *b				45
50	63.7	163.9	78,000 *b	67.4	165.7	82,400 *b				50
55	60.1	161.3	74,500 *	63.9	163.4	75,300 b	66.6	164.5	73,300 b	55
60	56.4	158.2	69,800	60.3	160.8	67,300	63.1	162.2	65,500 b	60
65	52.5	154.6	63,000	56.6	157.7	60,800	59.5	159.4	59,100	65
70	48.4	150.5	57,300	52.7	154.2	55,300	55.7	156.3	53,800	70
75	43.9	145.7	52,500	48.6	150.1	50,700	51.8	152.6	49,300	75
80	39.1	140.0	48,400	44.2	145.3	46,700	47.6	148.4	45,400	80
85	33.8	133.3	44,800	39.4	139.7	43,200	43.1	143.4	42,000	85
90	27.5	124.8	41,600	34.0	133.0	40,100	38.2	137.6	39,000	90
95	19.6	113.3	38,800	27.9	124.7	37,400	32.8	130.6	36,400	95
100	3.8	89.1	33,500 *	20.0	113.4	35,000	26.3	121.8	34,000	100
105				5.6	91.4	32,700	17.8	109.4	31,900	105
110										110
115										115
120										120
125										125



ANSI B30.5

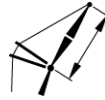
14000 S-1



127,000 lb
+
0 lb

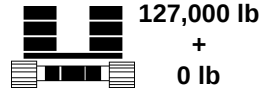
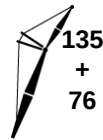


75.5 ft



90.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	60.5	158.6	51,300							70
75	56.8	155.6	47,000							75
80	52.9	152.1	43,200	57.7	154.2	41,100				80
85	48.8	148.0	40,000	53.9	150.8	38,100				85
90	44.4	143.3	37,200	49.8	146.9	35,300				90
95	39.6	137.7	34,700	45.5	142.3	32,900	50.6	145.0	31,300	95
100	34.4	131.1	32,400	40.8	137.0	30,800	46.4	140.6	29,200	100
105	28.2	122.8	30,400	35.7	130.6	28,900	41.8	135.4	27,400	105
110	20.5	111.8	28,500	29.8	122.9	27,100	36.8	129.3	25,700	110
115	7.2	91.5	26,800	22.6	112.7	25,500	31.1	121.9	24,200	115
120				11.9	96.6	24,000	24.2	112.4	22,800	120
125							14.7	98.2	21,500	125



75.5 ft



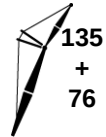
100.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
38	73.9	179.3	82,200 *c							38
40	72.7	178.7	80,500 *b							40
45	69.6	177.0	76,500 *b							45
50	66.5	175.0	72,900 *b	69.8	176.4	77,000 *b				50
55	63.4	172.6	69,500 *	66.7	174.4	73,400 *b				55
60	60.1	169.9	66,300 *	63.5	172.1	67,100	66.0	173.3	65,200 b	60
65	56.8	166.9	62,800	60.3	169.4	60,500	62.8	170.9	58,800	65
70	53.3	163.4	57,100	56.9	166.4	55,000	59.5	168.1	53,500	70
75	49.6	159.4	52,300	53.4	162.9	50,400	56.2	165.0	49,000	75
80	45.7	154.8	48,200	49.8	159.0	46,400	52.6	161.4	45,100	80
85	41.6	149.6	44,600	45.9	154.4	42,900	48.9	157.3	41,700	85
90	37.1	143.5	41,400	41.8	149.2	39,900	45.0	152.6	38,800	90
95	32.0	136.2	38,600	37.3	143.2	37,200	40.8	147.3	36,100	95
100	26.1	127.2	36,100	32.2	136.0	34,800	36.2	141.0	33,800	100
105	18.5	115.0	33,900	26.4	127.1	32,600	31.0	133.5	31,700	105
110	3.6	89.4	29,400 *	19.0	115.1	30,700	24.9	124.1	29,800	110
115				5.3	91.8	28,800	16.9	111.0	28,000	115
120										120
125										125
130										130
135										135



ANSI B30.5

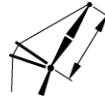
14000 S-1



127,000 lb
+
0 lb

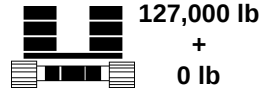
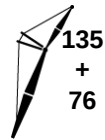


75.5 ft



100.0 ft

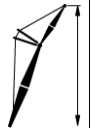
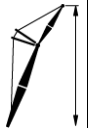
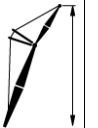
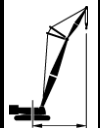
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	60.5	167.3	46,600							75
80	57.1	164.3	42,900							80
85	53.6	160.8	39,700	57.9	162.9	37,700				85
90	50.0	156.9	36,900	54.5	159.5	35,000				90
95	46.1	152.4	34,400	50.9	155.7	32,600				95
100	42.0	147.2	32,100	47.1	151.4	30,500	51.6	153.8	28,900	100
105	37.5	141.2	30,100	43.0	146.4	28,600	47.9	149.6	27,000	105
110	32.5	134.1	28,300	38.7	140.6	26,800	43.9	144.7	25,400	110
115	26.7	125.3	26,600	33.8	133.8	25,300	39.6	139.1	23,900	115
120	19.4	113.6	25,100	28.3	125.5	23,800	34.8	132.6	22,500	120
125	6.8	92.1	23,700	21.4	114.7	22,500	29.5	124.6	21,300	125
130				11.2	97.6	21,200	23.0	114.4	20,100	130
135							13.9	99.4	19,000	135



75.5 ft



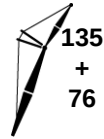
110.0 ft

	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40	74.3	189.1	75,200 *b							40
45	71.6	187.6	72,100 *b							45
50	68.8	185.8	69,100 *b							50
55	66.0	183.7	66,300 *	68.9	185.2	69,500 *b				55
60	63.1	181.3	63,600 *	66.1	183.2	66,700 *				60
65	60.1	178.6	61,000 *	63.2	180.8	60,400	65.5	182.0	58,700	65
70	57.1	175.5	57,000	60.3	178.1	55,000	62.6	179.5	53,400	70
75	53.9	172.1	52,200	57.2	175.1	50,300	59.6	176.8	48,900	75
80	50.6	168.2	48,100	54.1	171.7	46,400	56.5	173.6	45,000	80
85	47.2	163.9	44,500	50.8	167.8	42,900	53.3	170.1	41,700	85
90	43.5	158.9	41,400	47.3	163.5	39,900	50.0	166.2	38,700	90
95	39.6	153.3	38,600	43.7	158.6	37,200	46.5	161.7	36,100	95
100	35.3	146.7	36,200	39.7	152.9	34,800	42.8	156.7	33,800	100
105	30.5	139.0	33,900	35.5	146.4	32,600	38.8	150.9	31,700	105
110	24.9	129.5	31,900	30.7	138.8	30,700	34.5	144.2	29,800	110
115	17.7	116.6	30,100	25.1	129.4	28,900	29.6	136.2	28,100	115
120	3.4	89.7	24,500 *	18.1	116.7	27,300	23.8	126.2	26,500	120
125				5.0	92.3	25,700	16.1	112.4	25,000	125
130										130
135										135
140										140
145										145



ANSI B30.5

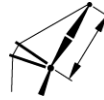
14000 S-1



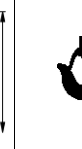
127,000 lb
+
0 lb

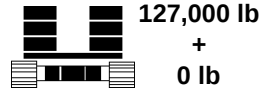
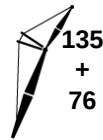


75.5 ft



110.0 ft

	75°			70°			65°			
										
	ft	°	ft	lb	ft	°	ft	lb	ft	°
40										
45										
50										
55										
60										
65										
70										
75										
80	60.4	175.9	42,800							
85	57.4	172.9	39,600							
90	54.2	169.5	36,800							
95	51.0	165.7	34,300	55.0	168.2	32,600				
100	47.5	161.4	32,100	51.8	164.5	30,400				
105	43.9	156.5	30,100	48.4	160.3	28,500	52.4	162.6	27,000	
110	40.0	151.0	28,300	44.8	155.6	26,800	49.1	158.5	25,400	
115	35.7	144.5	26,700	41.0	150.2	25,300	45.5	153.9	23,900	
120	31.0	136.9	25,200	36.8	144.0	23,800	41.7	148.7	22,500	
125	25.5	127.6	23,800	32.2	136.7	22,500	37.7	142.6	21,300	
130	18.5	115.2	22,500	26.9	127.9	21,300	33.2	135.6	20,100	
135	6.5	92.7	21,300	20.4	116.5	20,200	28.1	127.2	19,100	
140				10.7	98.6	19,100	21.9	116.4	18,100	
145							13.2	100.6	17,100	



75.5 ft



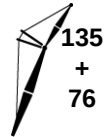
120.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	73.1	198.1	66,800 *b							45
50	70.6	196.4	64,000 *b							50
55	68.1	194.5	61,300 *	70.7	195.9	64,200 *b				55
60	65.5	192.4	58,700 *	68.2	194.0	61,600 *				60
65	62.8	190.0	56,200 *	65.6	191.9	59,100 *	67.6	192.9	58,400	65
70	60.1	187.3	53,900 *	62.9	189.5	54,700	65.0	190.7	53,100	70
75	57.3	184.2	51,700 *	60.2	186.8	50,100	62.4	188.2	48,600	75
80	54.4	180.8	47,900	57.4	183.7	46,100	59.6	185.4	44,700	80
85	51.4	177.1	44,300	54.6	180.4	42,600	56.8	182.3	41,400	85
90	48.3	172.8	41,200	51.6	176.6	39,600	53.9	178.9	38,400	90
95	45.0	168.1	38,400	48.5	172.4	36,900	50.9	175.0	35,800	95
100	41.5	162.8	35,900	45.2	167.7	34,500	47.8	170.7	33,500	100
105	37.8	156.8	33,700	41.7	162.5	32,400	44.4	165.9	31,400	105
110	33.7	149.8	31,700	38.0	156.5	30,500	40.9	160.5	29,500	110
115	29.1	141.7	29,900	33.9	149.6	28,700	37.1	154.3	27,800	115
120	23.8	131.6	28,200	29.4	141.5	27,100	33.0	147.2	26,300	120
125	16.9	118.1	26,700	24.1	131.5	25,600	28.3	138.7	24,900	125
130	3.3	90.0	21,600 *	17.3	118.3	24,300	22.7	128.3	23,500	130
135				4.8	92.7	22,900	15.4	113.8	22,300	135
140										140
145										145
150										150
155										155



ANSI B30.5

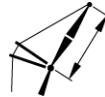
14000 S-1



127,000 lb
+
0 lb

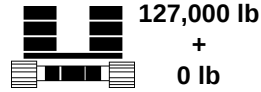
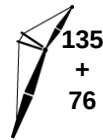


75.5 ft



120.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	60.4	184.6	39,300							85
90	57.6	181.6	36,500							90
95	54.7	178.3	34,000							95
100	51.7	174.5	31,800	55.4	176.9	30,100				100
105	48.6	170.4	29,800	52.5	173.3	28,200				105
110	45.4	165.7	28,000	49.4	169.2	26,500				110
115	41.9	160.4	26,400	46.2	164.7	24,900	50.0	167.4	23,500	115
120	38.2	154.5	24,900	42.8	159.6	23,500	46.8	163.0	22,200	120
125	34.2	147.7	23,500	39.1	153.9	22,200	43.5	158.0	20,900	125
130	29.6	139.6	22,300	35.2	147.3	21,000	39.9	152.4	19,800	130
135	24.4	129.8	21,100	30.8	139.6	19,900	36.0	146.0	18,800	135
140	17.7	116.8	20,000	25.8	130.3	18,900	31.7	138.5	17,800	140
145	6.2	93.2	19,000	19.6	118.3	17,900	26.8	129.6	16,900	145
150				10.3	99.5	17,000	20.9	118.3	16,000	150
155							12.7	101.8	15,200	155



75.5 ft



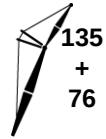
130.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	74.5	208.5	52,400 *b							45
50	72.2	207.0	51,300 *b							50
55	69.8	205.3	50,200 *							55
60	67.5	203.3	49,200 *	69.9	204.7	50,500 *				60
65	65.1	201.1	48,200 *	67.6	202.8	49,500 *				65
70	62.6	198.6	46,200 *	65.2	200.6	48,400 *	67.1	201.6	49,200 *	70
75	60.1	195.9	44,300 *	62.7	198.1	46,500 *	64.6	199.4	48,000 *	75
80	57.5	192.9	42,500 *	60.2	195.4	44,600 *	62.2	196.9	44,500	80
85	54.9	189.5	40,800 *	57.6	192.4	42,400	59.7	194.1	41,200	85
90	52.1	185.8	39,200 *	55.0	189.1	39,400	57.1	191.0	38,200	90
95	49.3	181.7	37,600 *	52.3	185.4	36,700	54.4	187.6	35,600	95
100	46.3	177.2	35,800	49.4	181.3	34,400	51.6	183.8	33,300	100
105	43.2	172.2	33,500	46.4	176.8	32,200	48.8	179.7	31,200	105
110	39.8	166.5	31,600	43.3	171.8	30,300	45.8	175.1	29,400	110
115	36.3	160.1	29,700	40.0	166.2	28,500	42.6	169.9	27,700	115
120	32.4	152.8	28,100	36.4	159.8	27,000	39.2	164.1	26,100	120
125	28.0	144.2	26,600	32.6	152.6	25,500	35.6	157.6	24,700	125
130	22.8	133.7	25,200	28.2	144.0	24,200	31.6	150.1	23,400	130
135	16.3	119.6	23,900	23.1	133.6	22,900	27.1	141.2	22,200	135
140	3.1	90.3	19,300 *	16.6	119.8	21,700	21.8	130.2	21,000	140
145				4.6	93.1	20,600	14.8	115.1	20,000	145
150										150
155										155
160										160
165										165



ANSI B30.5

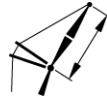
14000 S-1



127,000 lb
+
0 lb

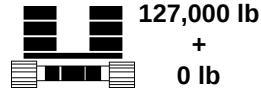
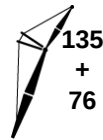


75.5 ft



130.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	62.9	196.0	39,100							85
90	60.4	193.3	36,300							90
95	57.8	190.3	33,800							95
100	55.1	187.0	31,600							100
105	52.4	183.3	29,600	55.8	185.6	28,000				105
110	49.6	179.2	27,800	53.1	182.1	26,200				110
115	46.6	174.8	26,200	50.3	178.1	24,700				115
120	43.5	169.8	24,700	47.3	173.7	23,300	50.9	176.2	21,900	120
125	40.2	164.2	23,300	44.3	168.9	22,000	47.9	171.9	20,700	125
130	36.6	157.9	22,100	41.0	163.4	20,800	44.9	167.2	19,600	130
135	32.8	150.7	20,900	37.5	157.3	19,700	41.7	161.9	18,500	135
140	28.5	142.2	19,900	33.8	150.4	18,700	38.3	155.9	17,600	140
145	23.4	131.9	18,900	29.6	142.3	17,800	34.5	149.1	16,700	145
150	17.0	118.4	17,900	24.7	132.5	16,900	30.4	141.3	15,800	150
155	6.0	93.8	17,000	18.8	120.0	16,000	25.8	131.9	15,100	155
160				9.9	100.4	15,200	20.1	120.1	14,300	160
165							12.2	102.9	13,600	165



75.5 ft



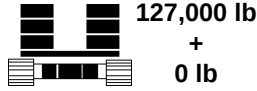
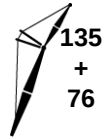
140.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50	73.5	217.4	48,100 *b							50
55	71.3	215.9	47,100 *							55
60	69.2	214.1	46,200 *							60
65	67.0	212.1	44,400 *	69.3	213.5	46,400 *				65
70	64.7	209.8	42,500 *	67.1	211.5	44,600 *				70
75	62.4	207.3	40,700 *	64.8	209.3	42,700 *	66.6	210.4	44,100 *	75
80	60.1	204.6	39,000 *	62.5	206.8	40,900 *	64.3	208.1	42,300 *	80
85	57.7	201.6	37,200 *	60.2	204.1	39,200 *	62.0	205.5	40,500 *	85
90	55.2	198.2	35,700 *	57.8	201.1	37,500 *	59.7	202.7	37,900	90
95	52.7	194.6	34,200 *	55.4	197.8	35,900 *	57.3	199.7	35,300	95
100	50.1	190.6	32,700 *	52.8	194.2	34,100	54.8	196.3	33,000	100
105	47.4	186.2	31,400 *	50.2	190.2	32,000	52.3	192.6	30,900	105
110	44.5	181.4	30,100 *	47.5	185.8	30,000	49.6	188.6	29,100	110
115	41.5	176.0	28,800 *	44.7	181.0	28,300	46.9	184.1	27,400	115
120	38.3	170.1	27,700 *	41.7	175.7	26,700	44.0	179.2	25,800	120
125	34.9	163.3	26,400	38.5	169.7	25,200	41.0	173.7	24,400	125
130	31.2	155.6	25,000	35.1	163.1	23,900	37.8	167.6	23,100	130
135	26.9	146.6	23,700	31.3	155.4	22,700	34.3	160.8	21,900	135
140	22.0	135.7	22,500	27.2	146.5	21,500	30.5	152.9	20,800	140
145	15.7	121.0	21,400	22.3	135.6	20,500	26.1	143.6	19,800	145
150	3.0	90.6	17,100 *	16.0	121.2	19,500	21.0	132.1	18,800	150
155				4.5	93.5	18,500	14.3	116.4	17,900	155
160										160
165										165
170										170
175										175

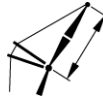


ANSI B30.5

14000 S-1

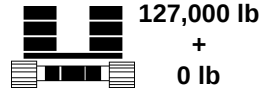
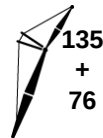


75.5 ft



140.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	62.7	204.6	35,900							90
95	60.3	201.9	33,400							95
100	57.9	198.9	31,200							100
105	55.5	195.7	29,300							105
110	53.0	192.1	27,500	56.1	194.3	25,900				110
115	50.4	188.1	25,900	53.6	190.8	24,400				115
120	47.7	183.8	24,400	51.0	186.9	23,000				120
125	44.8	179.0	23,000	48.3	182.7	21,700	51.5	185.1	20,400	125
130	41.8	173.7	21,800	45.5	178.0	20,500	48.9	180.9	19,200	130
135	38.7	167.8	20,700	42.6	172.9	19,400	46.1	176.3	18,200	135
140	35.3	161.1	19,600	39.5	167.1	18,400	43.2	171.2	17,200	140
145	31.6	153.6	18,600	36.1	160.7	17,500	40.1	165.6	16,400	145
150	27.4	144.7	17,700	32.5	153.3	16,600	36.8	159.3	15,500	150
155	22.5	134.0	16,800	28.5	144.8	15,800	33.3	152.2	14,700	155
160	16.4	119.8	16,000	23.8	134.6	15,000	29.3	144.0	14,000	160
165	5.7	94.3	15,200	18.1	121.6	14,300	24.8	134.2	13,300	165
170				9.5	101.2	13,600	19.4	121.9	12,700	170
175							11.7	103.9	12,000	175



75.5 ft



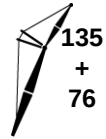
150.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50	74.6	227.8	45,000 *b							50
55	72.6	226.4	44,100 *							55
60	70.6	224.7	42,800 *							60
65	68.6	222.9	41,000 *	70.7	224.2	43,000 *				65
70	66.5	220.8	39,300 *	68.7	222.3	41,100 *				70
75	64.4	218.5	37,500 *	66.6	220.3	39,400 *				75
80	62.3	216.0	35,800 *	64.5	218.0	37,700 *	66.1	219.1	38,900 *	80
85	60.1	213.2	34,300 *	62.4	215.5	36,100 *	64.0	216.8	37,300 *	85
90	57.9	210.2	32,700 *	60.2	212.8	34,400 *	61.9	214.2	35,700 *	90
95	55.6	206.9	31,300 *	58.0	209.8	33,000 *	59.7	211.4	34,200 *	95
100	53.2	203.4	29,900 *	55.7	206.5	31,400 *	57.5	208.4	32,700 *	100
105	50.8	199.5	28,600 *	53.3	202.9	30,100 *	55.2	205.0	30,800 *	105
110	48.3	195.2	27,200 *	50.9	199.0	28,700 *	52.8	201.4	29,000 *	110
115	45.7	190.5	26,100 *	48.4	194.8	27,500 *	50.4	197.4	27,300 *	115
120	42.9	185.4	24,900 *	45.8	190.1	26,200 *	47.8	193.1	25,700 *	120
125	40.1	179.8	23,800 *	43.1	185.1	25,100 *	45.2	188.4	24,300 *	125
130	37.0	173.5	22,800 *	40.2	179.4	23,800 *	42.4	183.1	23,000 *	130
135	33.7	166.4	21,800 *	37.1	173.2	22,600 *	39.5	177.4	21,800 *	135
140	30.1	158.4	20,900 *	33.9	166.2	21,500 *	36.4	171.0	20,700 *	140
145	26.0	149.0	20,000 *	30.3	158.2	20,400 *	33.1	163.8	19,700 *	145
150	21.2	137.6	19,300 *	26.2	148.9	19,400 *	29.4	155.5	18,800 *	150
155	15.1	122.3	18,700 *	21.5	137.6	18,500 *	25.2	145.9	17,900 *	155
160	2.9	90.8	15,300 *	15.5	122.6	17,600 *	20.3	133.9	17,000 *	160
165				4.3	93.9	16,800 *	13.8	117.6	16,200 *	165
170										170
175										175
180										180
185										185



ANSI B30.5

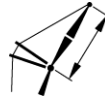
14000 S-1



127,000 lb
+
0 lb

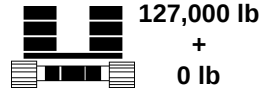
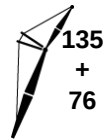


75.5 ft



150.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	62.5	213.3	33,300							95
100	60.3	210.6	31,100							100
105	58.1	207.6	29,100							105
110	55.8	204.4	27,400							110
115	53.5	200.8	25,800	56.4	203.0	24,300				115
120	51.0	196.9	24,300	54.0	199.5	22,900				120
125	48.5	192.7	22,900	51.6	195.7	21,600				125
130	45.9	188.1	21,700	49.2	191.6	20,400	52.1	193.8	19,100	130
135	43.2	183.0	20,600	46.6	187.1	19,300	49.7	189.8	18,100	135
140	40.4	177.4	19,500	43.9	182.1	18,300	47.1	185.3	17,100	140
145	37.3	171.2	18,500	41.1	176.7	17,400	44.5	180.5	16,300	145
150	34.0	164.2	17,600	38.1	170.6	16,500	41.7	175.1	15,400	150
155	30.5	156.3	16,800	34.9	163.9	15,700	38.7	169.2	14,700	155
160	26.4	147.1	16,000	31.4	156.2	15,000	35.5	162.6	13,900	160
165	21.8	135.9	15,200	27.5	147.3	14,200	32.1	155.1	13,300	165
170	15.8	121.2	14,500	23.0	136.7	13,600	28.3	146.5	12,600	170
175	5.5	94.8	13,800	17.5	123.2	12,900	24.0	136.3	12,000	175
180				9.2	102.1	12,300	18.7	123.5	11,400	180
185							11.3	104.9	10,900	185



75.5 ft



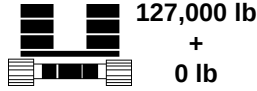
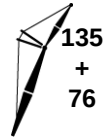
160.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55	73.7	236.8	41,100 *							55
60	71.9	235.3	39,300 *							60
65	70.0	233.5	37,600 *							65
70	68.1	231.6	35,800 *	70.1	233.0	37,700 *				70
75	66.1	229.5	34,200 *	68.1	231.1	36,000 *				75
80	64.1	227.2	32,700 *	66.2	229.0	34,400 *	67.7	229.9	35,600 *	80
85	62.1	224.7	31,100 *	64.2	226.7	32,800 *	65.8	227.8	34,000 *	85
90	60.1	221.9	29,700 *	62.2	224.2	31,300 *	63.8	225.4	32,500 *	90
95	58.0	218.9	28,200 *	60.2	221.4	29,800 *	61.8	222.9	31,000 *	95
100	55.9	215.6	26,900 *	58.1	218.4	28,400 *	59.7	220.1	29,500 *	100
105	53.7	212.1	25,600 *	56.0	215.2	27,000 *	57.6	217.0	28,100 *	105
110	51.4	208.3	24,300 *	53.8	211.7	25,700 *	55.5	213.7	26,800 *	110
115	49.1	204.1	23,100 *	51.5	207.9	24,500 *	53.3	210.1	25,500 *	115
120	46.7	199.6	22,000 *	49.2	203.7	23,300 *	51.0	206.3	24,200 *	120
125	44.1	194.7	20,900 *	46.8	199.2	22,100 *	48.7	202.0	23,100 *	125
130	41.5	189.3	19,900 *	44.3	194.3	21,100 *	46.2	197.4	21,900 *	130
135	38.7	183.3	18,900 *	41.6	188.9	20,000 *	43.7	192.4	20,900 *	135
140	35.8	176.8	18,000 *	38.9	183.0	19,100 *	41.0	187.0	19,800 *	140
145	32.6	169.4	17,100 *	35.9	176.5	18,200 *	38.2	180.9	18,900 *	145
150	29.1	161.0	16,400 *	32.7	169.1	17,300 *	35.2	174.2	18,000 *	150
155	25.2	151.3	15,600 *	29.3	160.8	16,400 *	32.0	166.7	17,100 *	155
160	20.6	139.4	14,900 *	25.4	151.1	15,700 *	28.4	158.1	16,300 *	160
165	14.6	123.7	14,200 *	20.8	139.4	15,000 *	24.4	148.1	15,600 *	165
170	2.8	91.1	13,500 *	15.0	123.9	14,300 *	19.6	135.7	14,800 *	170
175				4.2	94.3	13,500 *	13.3	118.8	14,100 *	175
180										180
185										185
190										190
195										195

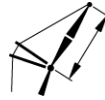


ANSI B30.5

14000 S-1

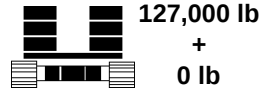
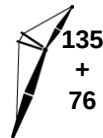


75.5 ft



160.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	62.3	222.0	30,800							100
105	60.3	219.3	28,800							105
110	58.2	216.3	27,100							110
115	56.1	213.1	25,400							115
120	53.9	209.6	24,000	56.6	211.7	22,500				120
125	51.6	205.7	22,600	54.4	208.3	21,200				125
130	49.3	201.6	21,400	52.2	204.5	20,100				130
135	46.9	197.1	20,300	49.9	200.5	19,000	52.6	202.6	17,800	135
140	44.4	192.2	19,200	47.5	196.1	18,000	50.4	198.6	16,800	140
145	41.8	186.9	18,300	45.0	191.3	17,100	48.0	194.3	15,900	145
150	39.0	181.0	17,300	42.4	186.1	16,200	45.5	189.6	15,100	150
155	36.1	174.5	16,500	39.7	180.4	15,400	43.0	184.5	14,300	155
160	32.9	167.3	15,700	36.8	174.0	14,700	40.3	178.9	13,600	160
165	29.5	159.0	15,000	33.7	166.9	13,900	37.4	172.6	13,000	165
170	25.6	149.4	14,300	30.3	159.0	13,300	34.4	165.7	12,300	170
175	21.1	137.8	13,600	26.6	149.7	12,600	31.1	157.9	11,700	175
180	15.3	122.6	13,000	22.3	138.7	12,000	27.4	149.0	11,200	180
185	5.4	95.2	12,300	16.9	124.7	11,500	23.2	138.4	10,600	185
190				8.9	102.8	10,900	18.1	125.2	10,100	190
195							11.0	105.9	9,600	195



75.5 ft



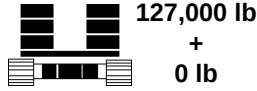
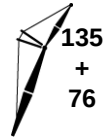
170.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55	74.7	247.2	38,000 *							55
60	73.0	245.8	36,300 *							60
65	71.2	244.1	34,700 *							65
70	69.4	242.4	33,100 *							70
75	67.6	240.4	31,500 *	69.5	241.8	33,100 *				75
80	65.8	238.2	30,000 *	67.7	239.9	31,600 *				80
85	63.9	235.9	28,500 *	65.8	237.7	30,100 *	67.3	238.7	31,200 *	85
90	62.0	233.3	27,100 *	64.0	235.4	28,700 *	65.4	236.5	29,800 *	90
95	60.1	230.6	25,800 *	62.1	232.8	27,300 *	63.6	234.1	28,400 *	95
100	58.1	227.6	24,500 *	60.2	230.1	25,900 *	61.7	231.5	27,000 *	100
105	56.1	224.3	23,300 *	58.2	227.1	24,600 *	59.7	228.7	25,600 *	105
110	54.0	220.8	22,000 *	56.2	223.9	23,400 *	57.8	225.7	24,400 *	110
115	51.9	217.1	20,900 *	54.1	220.4	22,200 *	55.7	222.4	23,100 *	115
120	49.8	213.0	19,800 *	52.0	216.6	21,000 *	53.7	218.9	21,900 *	120
125	47.5	208.6	18,800 *	49.9	212.6	19,900 *	51.6	215.1	20,800 *	125
130	45.2	203.8	17,800 *	47.6	208.2	18,900 *	49.4	210.9	19,700 *	130
135	42.8	198.6	16,800 *	45.3	203.4	17,900 *	47.1	206.5	18,700 *	135
140	40.2	193.0	15,900 *	42.9	198.3	16,900 *	44.8	201.6	17,700 *	140
145	37.5	186.8	15,100 *	40.3	192.7	16,000 *	42.3	196.4	16,800 *	145
150	34.7	179.9	14,300 *	37.7	186.5	15,200 *	39.8	190.6	15,900 *	150
155	31.6	172.3	13,500 *	34.8	179.7	14,300 *	37.0	184.3	15,100 *	155
160	28.2	163.6	12,600 *	31.7	172.0	13,600 *	34.2	177.3	14,300 *	160
165	24.4	153.5	11,800 *	28.4	163.4	12,700 *	31.0	169.5	13,400 *	165
170	19.9	141.2	10,900 *	24.6	153.4	11,800 *	27.6	160.6	12,500 *	170
175	14.2	124.9	10,100 *	20.2	141.2	11,000 *	23.7	150.2	11,600 *	175
180	2.7	91.3	9,600 *	14.5	125.2	10,200 *	19.1	137.4	10,800 *	180
185				4.1	94.7	9,700 *	12.9	120.0	10,100 *	185
190										190
195										195
200										200
205										205

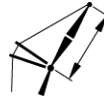


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14000 S-1



75.5 ft

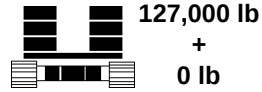
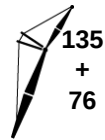


170.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	62.2	230.7	27,200 *							105
110	60.3	227.9	25,900 *							110
115	58.3	224.9	24,600 *							115
120	56.3	221.7	23,400 *							120
125	54.3	218.3	22,300 *	56.8	220.4	21,000				125
130	52.2	214.5	21,100 *	54.8	217.0	19,800				130
135	50.0	210.5	20,000 *	52.7	213.3	18,800				135
140	47.8	206.1	19,000	50.5	209.3	17,800				140
145	45.4	201.4	18,000	48.3	205.1	16,800	51.0	207.5	15,700	145
150	43.0	196.3	17,100 *	46.0	200.4	16,000	48.8	203.2	14,900	150
155	40.5	190.7	16,200 *	43.6	195.4	15,200	46.5	198.7	14,100	155
160	37.8	184.5	15,300 *	41.1	189.9	14,400	44.1	193.7	13,400	160
165	35.0	177.7	14,500 *	38.5	183.9	13,700	41.6	188.4	12,700	165
170	31.9	170.2	13,700 *	35.7	177.3	13,100	39.0	182.5	12,100	170
175	28.6	161.6	12,800 *	32.7	169.9	12,400	36.3	176.0	11,500	175
180	24.8	151.6	11,900 *	29.4	161.6	11,800	33.3	168.8	10,900	180
185	20.4	139.6	11,100 *	25.8	152.1	11,300	30.1	160.7	10,400	185
190	14.9	123.9	10,300 *	21.6	140.7	10,800	26.5	151.4	9,900	190
195	5.2	95.7	9,700 *	16.4	126.1	10,200	22.5	140.4	9,400	195
200				8.6	103.6	9,700	17.6	126.7	9,000	200
205							10.6	106.8	8,500	205

14000 S-1

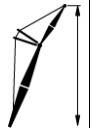
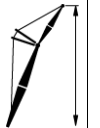
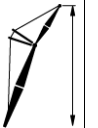
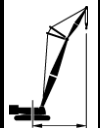
ANSI B30.5



85.3 ft



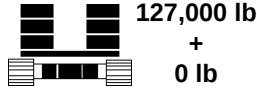
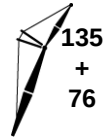
70.0 ft

	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
30	74.0	160.3	113,100 *d							30
32	72.3	159.7	113,100 *c							32
34	70.6	159.1	112,600 *c							34
36	68.8	158.3	110,200 *c							36
38	67.1	157.5	107,800 *c							38
40	65.3	156.6	105,600 *b	70.5	158.4	113,000 *c				40
45	60.7	154.1	100,500 *b	66.1	156.4	97,900 c				45
50	55.9	151.0	88,600 b	61.5	153.9	85,200 b	65.5	155.3	82,700 b	50
55	50.7	147.3	78,300	56.8	150.9	75,300 b	61.0	152.8	73,100 b	55
60	45.2	142.7	70,000	51.7	147.3	67,400	56.2	149.7	65,400 b	60
65	39.1	137.2	63,200	46.3	143.0	60,800	51.1	146.1	59,000	65
70	32.1	130.3	57,500	40.3	137.7	55,300	45.6	141.6	53,700	70
75	23.3	120.7	52,600	33.5	131.0	50,700	39.6	136.2	49,200	75
80	8.2	103.0	48,300	25.1	122.1	46,600	32.6	129.3	45,300	80
85				12.4	107.4	43,100	23.9	120.0	41,900	85
90							9.8	103.5	38,800	90
95										95
100										100
105										105
110										110

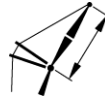


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14000 S-1

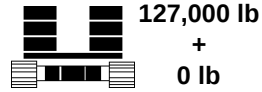
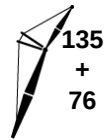


85.3 ft



70.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
30										30
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65	58.3	149.4	56,000 b							65
70	53.4	146.0	51,000							70
75	48.1	141.9	46,700	55.4	145.0	44,200 b				75
80	42.3	136.9	43,000	50.3	141.2	40,700				80
85	35.8	130.8	39,800	44.7	136.6	37,600	52.2	139.6	35,600	85
90	28.1	122.8	36,900	38.6	131.0	35,000	46.8	135.4	33,000	90
95	17.5	110.9	34,300	31.5	123.9	32,600	40.9	130.2	30,800	95
100				22.4	114.1	30,400	34.2	123.7	28,700	100
105				5.2	93.7	28,300	26.0	115.0	26,900	105
110							14.0	101.3	25,200	110



85.3 ft



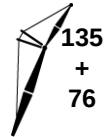
80.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
32	74.6	170.2	103,200 *c							32
34	73.1	169.6	103,100 *c							34
36	71.6	168.9	102,200 *c							36
38	70.1	168.2	100,100 *c							38
40	68.5	167.5	98,000 *b							40
45	64.6	165.3	93,200 *b	69.2	167.2	97,600 c				45
50	60.6	162.7	88,400 b	65.3	165.1	85,000 b				50
55	56.4	159.7	78,100	61.3	162.6	75,100 b	64.9	164.0	72,800 b	55
60	52.0	156.1	69,800	57.2	159.6	67,100	60.8	161.5	65,100 b	60
65	47.3	151.8	63,000	52.8	156.1	60,600	56.7	158.4	58,700	65
70	42.2	146.8	57,400	48.2	152.0	55,100	52.3	154.9	53,400	70
75	36.5	140.7	52,500	43.1	147.1	50,500	47.6	150.6	48,900	75
80	30.0	133.0	48,400	37.6	141.2	46,500	42.5	145.6	45,100	80
85	21.8	122.7	44,700	31.3	133.9	43,000	36.9	139.6	41,700	85
90	7.6	103.7	41,400	23.5	124.2	39,900	30.4	132.1	38,700	90
95				11.6	108.4	37,200	22.4	122.1	36,100	95
100							9.2	104.4	33,600	100
105										105
110										110
115										115
120										120

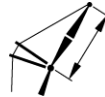


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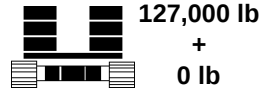
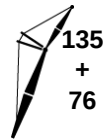


85.3 ft



80.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65	62.7	160.9	55,700 lb							65
70	58.5	158.0	50,600							70
75	54.2	154.7	46,400							75
80	49.7	150.8	42,700	56.0	153.7	40,300				80
85	44.8	146.2	39,500	51.6	150.1	37,300				85
90	39.5	140.7	36,700	46.8	145.7	34,600				90
95	33.4	133.9	34,200	41.7	140.6	32,300	48.6	144.3	30,400	95
100	26.2	125.2	31,900	36.0	134.4	30,200	43.6	139.5	28,400	100
105	16.4	112.4	29,900	29.4	126.6	28,300	38.1	133.8	26,600	105
110				20.9	116.0	26,500	31.9	126.6	25,000	110
115				4.9	94.1	24,800	24.3	117.3	23,500	115
120							13.1	102.5	22,100	120



85.3 ft



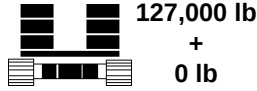
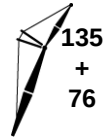
90.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
36	73.7	179.4	89,400 *c							36
38	72.3	178.8	87,600 *c							38
40	71.0	178.1	85,900 *c							40
45	67.6	176.3	81,800 *b							45
50	64.1	174.0	78,100 *b	68.2	176.0	83,000 *b				50
55	60.5	171.4	74,600 *	64.8	173.8	74,900 b	67.8	174.9	72,600 b	55
60	56.8	168.4	69,700	61.2	171.2	66,900	64.3	172.7	64,900 b	60
65	52.9	164.8	62,900	57.5	168.3	60,400	60.8	170.1	58,500	65
70	48.8	160.8	57,300	53.6	164.8	55,000	57.0	167.1	53,300	70
75	44.4	156.0	52,500	49.6	160.9	50,400	53.2	163.6	48,800	75
80	39.7	150.5	48,300	45.2	156.3	46,400	49.1	159.6	44,900	80
85	34.4	143.9	44,700	40.6	150.9	42,900	44.7	154.9	41,600	85
90	28.2	135.6	41,600	35.4	144.5	39,900	40.0	149.4	38,600	90
95	20.5	124.6	38,700	29.4	136.6	37,200	34.7	142.9	36,000	95
100	7.2	104.3	36,100	22.1	126.3	34,800	28.7	134.8	33,700	100
105				10.9	109.4	32,500	21.1	124.0	31,600	105
110							8.7	105.2	29,600	110
115										115
120										120
125										125
130										130

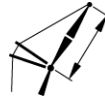


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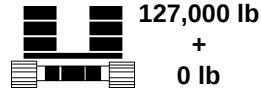
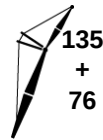


85.3 ft



90.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	62.4	169.5	50,400							70
75	58.7	166.7	46,200							75
80	54.9	163.4	42,500							80
85	50.9	159.6	39,300	56.5	162.4	37,100				85
90	46.7	155.3	36,500	52.6	158.8	34,400				90
95	42.1	150.2	34,000	48.4	154.7	32,100				95
100	37.1	144.1	31,800	44.0	149.9	30,000	49.9	153.2	28,200	100
105	31.5	136.8	29,800	39.2	144.3	28,100	45.7	148.7	26,400	105
110	24.7	127.4	28,000	33.9	137.6	26,400	41.0	143.4	24,800	110
115	15.4	113.8	26,400	27.7	129.1	24,900	35.9	137.1	23,400	115
120				19.7	117.8	23,400	30.0	129.4	22,000	120
125				4.6	94.6	22,000	22.9	119.3	20,800	125
130							12.4	103.6	19,600	130



85.3 ft



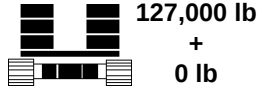
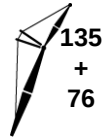
100.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	lb	ft	
38	74.2	189.2	82,100 *c							38
40	73.0	188.7	80,500 *c							40
45	69.9	187.0	76,500 *b							45
50	66.9	185.0	72,900 *b	70.5	186.6	77,500 *b				50
55	63.7	182.7	69,500 *	67.4	184.7	73,900 *b				55
60	60.5	180.1	66,400 *	64.3	182.5	66,700	67.1	183.7	64,500 b	60
65	57.1	177.0	62,700	61.1	179.9	60,100	63.9	181.4	58,200	65
70	53.6	173.6	57,000	57.7	176.9	54,700	60.7	178.8	53,000	70
75	50.0	169.6	52,200	54.3	173.6	50,100	57.3	175.8	48,500	75
80	46.1	165.1	48,100	50.7	169.7	46,100	53.9	172.4	44,600	80
85	42.0	160.0	44,500	46.9	165.4	42,700	50.2	168.5	41,300	85
90	37.5	154.0	41,400	42.8	160.3	39,700	46.4	164.0	38,400	90
95	32.6	146.9	38,600	38.4	154.5	37,000	42.3	158.9	35,800	95
100	26.8	138.1	36,100	33.5	147.6	34,600	37.8	152.9	33,400	100
105	19.5	126.3	33,800	27.9	139.2	32,400	32.9	145.9	31,400	105
110	6.8	104.9	31,700	21.0	128.2	30,500	27.2	137.2	29,500	110
115				10.3	110.3	28,600	20.0	125.8	27,700	115
120							8.2	105.9	26,100	120
125										125
130										130
135										135
140										140

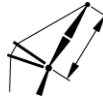


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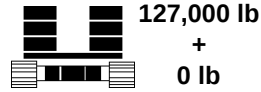
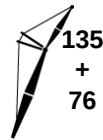


85.3 ft



100.0 ft

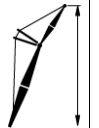
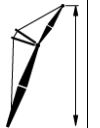
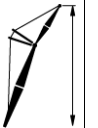
	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	62.1	178.2	45,800							75
80	58.8	175.4	42,200							80
85	55.4	172.1	39,000							85
90	51.9	168.4	36,200	56.8	171.1	34,100				90
95	48.1	164.3	33,700	53.3	167.6	31,700				95
100	44.2	159.4	31,500	49.7	163.6	29,700				100
105	39.9	153.9	29,600	45.8	159.1	27,800	51.0	162.1	26,100	105
110	35.2	147.4	27,800	41.7	153.8	26,100	47.2	157.7	24,500	110
115	29.8	139.5	26,200	37.1	147.7	24,600	43.2	152.8	23,000	115
120	23.4	129.6	24,700	32.1	140.5	23,200	38.8	147.0	21,700	120
125	14.6	115.1	23,300	26.2	131.6	21,900	34.0	140.2	20,500	125
130				18.7	119.5	20,700	28.5	132.0	19,400	130
135				4.3	94.9	19,500	21.7	121.3	18,300	135
140							11.7	104.7	17,300	140



85.3 ft



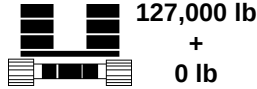
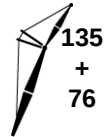
110.0 ft

	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40	74.6	199.1	74,900 *c							40
45	71.8	197.6	71,900 *b							45
50	69.1	195.8	68,900 *b							50
55	66.3	193.7	66,200 *	69.6	195.5	69,700 *b				55
60	63.4	191.4	63,600 *	66.8	193.5	66,600				60
65	60.4	188.7	61,100 *	63.9	191.2	60,100	66.4	192.4	58,100	65
70	57.4	185.7	57,000	61.0	188.6	54,600	63.6	190.1	52,900	70
75	54.2	182.3	52,200	57.9	185.6	50,000	60.6	187.4	48,400	75
80	51.0	178.5	48,100	54.8	182.3	46,100	57.6	184.4	44,600	80
85	47.5	174.2	44,500	51.6	178.5	42,600	54.4	181.1	41,200	85
90	43.9	169.3	41,400	48.2	174.3	39,600	51.2	177.3	38,300	90
95	40.0	163.7	38,600	44.6	169.6	36,900	47.7	173.0	35,700	95
100	35.7	157.3	36,100	40.7	164.1	34,600	44.1	168.2	33,400	100
105	31.0	149.7	33,900	36.5	157.9	32,400	40.2	162.6	31,300	105
110	25.5	140.4	31,900	31.9	150.5	30,500	36.0	156.3	29,500	110
115	18.5	128.0	30,000	26.6	141.6	28,800	31.3	148.8	27,800	115
120	6.5	105.5	27,200 *	20.0	130.0	27,100	25.9	139.6	26,200	120
125				9.9	111.2	25,600	19.1	127.5	24,800	125
130							7.8	106.6	23,400	130
135										135
140										140
145										145
150										150

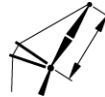


ANSI B30.5

14000 S-1

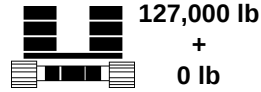
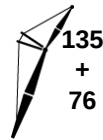


85.3 ft



110.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	61.9	186.9	42,100							80
85	58.9	184.0	38,900							85
90	55.8	180.8	36,100							90
95	52.6	177.2	33,700	57.1	179.7	31,700				95
100	49.3	173.2	31,500	54.0	176.3	29,600				100
105	45.8	168.6	29,500	50.7	172.5	27,800				105
110	42.0	163.4	27,800	47.2	168.1	26,100	51.9	170.9	24,400	110
115	37.9	157.4	26,200	43.6	163.2	24,600	48.5	166.7	23,000	115
120	33.5	150.5	24,700	39.6	157.5	23,200	44.9	162.0	21,700	120
125	28.4	142.1	23,300	35.4	151.0	21,900	41.1	156.6	20,500	125
130	22.3	131.6	22,100	30.6	143.3	20,700	36.9	150.5	19,400	130
135	14.0	116.3	20,900	25.0	133.8	19,600	32.4	143.2	18,300	135
140				17.8	121.1	18,600	27.1	134.5	17,400	140
145				4.1	95.3	17,600	20.7	123.2	16,500	145
150							11.2	105.7	15,600	150



85.3 ft



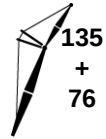
120.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	73.4	208.1	66,600 *b							45
50	70.9	206.4	63,800 *b							50
55	68.3	204.6	61,100 *							55
60	65.7	202.5	58,600 *	68.8	204.3	61,800 *				60
65	63.1	200.1	56,200 *	66.2	202.2	59,300 *				65
70	60.4	197.4	54,000 *	63.6	199.9	54,300	65.9	201.1	52,600	70
75	57.6	194.4	51,800 *	60.9	197.2	49,700	63.3	198.8	48,100	75
80	54.7	191.0	47,800	58.1	194.3	45,800	60.6	196.1	44,300	80
85	51.7	187.3	44,300	55.3	191.0	42,400	57.8	193.1	40,900	85
90	48.6	183.1	41,100	52.3	187.3	39,300	54.9	189.8	38,000	90
95	45.4	178.5	38,400	49.2	183.2	36,700	51.9	186.1	35,400	95
100	41.9	173.2	35,900	46.0	178.7	34,300	48.8	181.9	33,100	100
105	38.2	167.3	33,700	42.6	173.6	32,200	45.6	177.3	31,100	105
110	34.2	160.4	31,700	38.9	167.7	30,300	42.1	172.1	29,200	110
115	29.6	152.4	29,900	34.9	161.1	28,500	38.5	166.2	27,500	115
120	24.4	142.6	28,200	30.5	153.3	26,900	34.4	159.4	26,000	120
125	17.7	129.6	26,700	25.4	143.9	25,500	30.0	151.5	24,600	125
130	6.2	106.1	24,000 *	19.1	131.7	24,100	24.8	141.8	23,300	130
135				9.4	112.1	22,800	18.2	129.1	22,000	135
140							7.5	107.3	20,900	140
145										145
150										150
155										155
160										160



ANSI B30.5

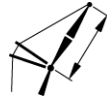
14000 S-1



127,000 lb
+
0 lb

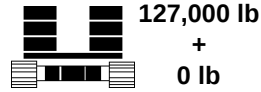
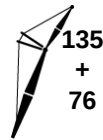


85.3 ft



120.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	ft	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	61.8	195.5	38,600							85
90	59.0	192.7	35,800							90
95	56.2	189.5	33,400							95
100	53.3	186.0	31,200	57.4	188.4	29,300				100
105	50.2	182.0	29,200	54.5	185.1	27,400				105
110	47.1	177.6	27,500	51.5	181.3	25,700				110
115	43.7	172.7	25,900	48.4	177.1	24,200	52.6	179.6	22,600	115
120	40.1	167.1	24,400	45.1	172.4	22,800	49.5	175.6	21,300	120
125	36.3	160.8	23,100	41.6	167.1	21,600	46.3	171.1	20,100	125
130	32.0	153.4	21,800	37.9	161.1	20,400	42.9	166.0	19,000	130
135	27.2	144.6	20,700	33.8	154.1	19,300	39.3	160.3	18,000	135
140	21.4	133.5	19,600	29.2	146.0	18,300	35.3	153.7	17,100	140
145	13.4	117.5	18,600	23.9	136.0	17,400	31.0	146.1	16,200	145
150				17.1	122.6	16,500	25.9	136.8	15,400	150
155				4.0	95.7	15,600	19.8	125.0	14,600	155
160							10.7	106.6	13,800	160



85.3 ft



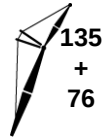
130.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	74.7	218.4	52,000 *b							45
50	72.4	217.0	50,800 *b							50
55	70.1	215.3	49,800 *							55
60	67.7	213.3	48,800 *	70.5	214.9	50,200 *				60
65	65.3	211.2	47,900 *	68.2	213.0	49,300 *				65
70	62.9	208.7	46,200 *	65.8	210.9	48,400 *	67.9	212.0	49,100 *	70
75	60.4	206.0	44,400 *	63.3	208.5	46,800 *	65.5	209.9	47,900	75
80	57.8	203.0	42,600 *	60.8	205.9	45,000 *	63.0	207.4	44,000	80
85	55.1	199.7	40,900 *	58.3	202.9	42,100	60.5	204.8	40,700	85
90	52.4	196.1	39,300 *	55.6	199.7	39,100	58.0	201.8	37,800	90
95	49.6	192.0	37,800 *	52.9	196.1	36,500	55.3	198.5	35,200	95
100	46.6	187.5	35,700	50.1	192.1	34,100	52.6	194.9	32,900	100
105	43.5	182.5	33,500	47.2	187.7	32,000	49.8	190.8	30,900	105
110	40.2	177.0	31,500	44.1	182.8	30,100	46.8	186.4	29,000	110
115	36.7	170.7	29,700	40.8	177.4	28,400	43.7	181.4	27,300	115
120	32.8	163.4	28,100	37.3	171.2	26,800	40.4	175.9	25,800	120
125	28.5	155.0	26,600	33.5	164.2	25,300	36.9	169.6	24,400	125
130	23.4	144.7	25,200	29.3	156.0	24,000	33.0	162.5	23,100	130
135	17.0	131.1	23,900	24.4	146.1	22,700	28.8	154.1	21,900	135
140	6.0	106.6	21,500 *	18.4	133.4	21,600	23.8	144.0	20,800	140
145				9.1	112.9	20,500	17.5	130.7	19,700	145
150							7.2	107.9	18,700	150
155										155
160										160
165										165
170										170



ANSI B30.5

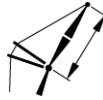
14000 S-1



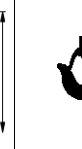
127,000 lb
+
0 lb

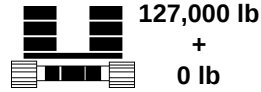
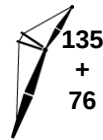


85.3 ft



130.0 ft

	75°			70°			65°			
										
	ft	°	ft	lb	ft	lb	ft	lb	ft	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	61.6	204.2	35,600							90
95	59.1	201.4	33,100							95
100	56.5	198.2	30,900							100
105	53.8	194.7	29,000	57.6	197.1	27,200				105
110	51.0	190.9	27,200	54.9	193.8	25,500				110
115	48.1	186.6	25,600	52.2	190.1	24,000				115
120	45.1	181.9	24,200	49.3	186.0	22,600				120
125	41.9	176.6	22,900	46.4	181.4	21,300	50.4	184.5	19,900	125
130	38.5	170.7	21,600	43.2	176.4	20,200	47.4	180.1	18,800	130
135	34.8	164.0	20,500	39.9	170.8	19,100	44.4	175.3	17,800	135
140	30.7	156.2	19,500	36.3	164.4	18,100	41.1	169.9	16,800	140
145	26.1	147.0	18,500	32.4	157.1	17,200	37.7	163.8	16,000	145
150	20.5	135.4	17,600	28.1	148.5	16,400	33.9	156.8	15,200	150
155	12.8	118.7	16,700	22.9	138.1	15,500	29.7	148.8	14,400	155
160				16.4	124.1	14,800	24.9	139.1	13,700	160
165				3.8	96.0	14,000	19.0	126.7	13,000	165
170							10.3	107.5	12,300	170



85.3 ft



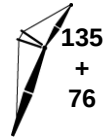
140.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50	73.7	227.4	47,700 *b							50
55	71.6	225.9	46,700 *							55
60	69.4	224.1	45,800 *							60
65	67.2	222.1	44,400 *	69.8	223.7	46,100 *				65
70	64.9	219.9	42,500 *	67.6	221.8	44,800 *				70
75	62.7	217.4	40,700 *	65.4	219.6	43,000 *	67.3	220.8	44,500 *	75
80	60.3	214.7	39,000 *	63.1	217.2	41,200 *	65.1	218.6	42,700 *	80
85	58.0	211.7	37,400 *	60.8	214.5	39,500 *	62.8	216.1	40,400	85
90	55.5	208.4	35,800 *	58.4	211.6	37,900 *	60.5	213.4	37,500	90
95	53.0	204.8	34,300 *	56.0	208.4	36,200	58.1	210.5	34,900	95
100	50.4	200.9	32,900 *	53.4	204.8	33,800	55.7	207.2	32,600	100
105	47.7	196.5	31,500 *	50.9	201.0	31,700	53.1	203.6	30,600	105
110	44.8	191.7	30,100 *	48.2	196.7	29,800	50.5	199.7	28,700	110
115	41.8	186.4	29,000 *	45.4	192.0	28,100	47.8	195.4	27,000	115
120	38.7	180.6	27,800 *	42.4	186.8	26,500	45.0	190.6	25,500	120
125	35.3	173.9	26,300	39.3	181.0	25,100	42.0	185.4	24,100	125
130	31.6	166.3	24,900	35.9	174.5	23,700	38.9	179.5	22,800	130
135	27.4	157.5	23,700	32.3	167.1	22,500	35.5	172.9	21,600	135
140	22.6	146.7	22,500	28.2	158.6	21,400	31.8	165.4	20,500	140
145	16.4	132.6	21,400	23.5	148.2	20,300	27.7	156.6	19,500	145
150	5.8	107.1	19,100 *	17.7	134.9	19,300	22.9	146.1	18,600	150
155				8.7	113.7	18,300	16.9	132.2	17,700	155
160							6.9	108.5	16,800	160
165										165
170										170
175										175
180										180



ANSI B30.5

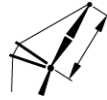
14000 S-1



127,000 lb
+
0 lb

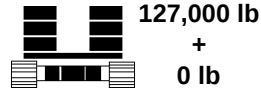
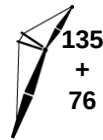


85.3 ft



140.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	61.5	212.9	32,800							95
100	59.2	210.0	30,600							100
105	56.8	206.9	28,700							105
110	54.3	203.4	26,900	57.7	205.8	25,100				110
115	51.7	199.7	25,300	55.3	202.5	23,600				115
120	49.1	195.5	23,900	52.8	198.8	22,300				120
125	46.3	191.0	22,600	50.1	194.9	21,000				125
130	43.4	186.0	21,300	47.4	190.5	19,900	51.1	193.3	18,400	130
135	40.3	180.4	20,200	44.6	185.6	18,800	48.4	189.1	17,400	135
140	37.0	174.1	19,200	41.6	180.3	17,800	45.6	184.4	16,500	140
145	33.5	167.1	18,200	38.4	174.3	16,900	42.7	179.3	15,600	145
150	29.6	158.9	17,300	35.0	167.6	16,100	39.6	173.5	14,800	150
155	25.1	149.2	16,500	31.2	160.0	15,300	36.2	167.1	14,100	155
160	19.8	137.1	15,700	27.0	151.0	14,500	32.6	159.8	13,400	160
165	12.4	119.8	14,900	22.1	140.1	13,800	28.6	151.4	12,700	165
170				15.8	125.5	13,100	24.0	141.2	12,100	170
175				3.7	96.3	12,400	18.3	128.3	11,500	175
180							9.9	108.4	10,900	180



85.3 ft



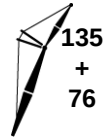
150.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50	74.8	237.8	44,600 *b							50
55	72.8	236.4	43,700 *							55
60	70.8	234.7	42,800 *							60
65	68.8	232.9	41,000 *							65
70	66.7	230.8	39,300 *	69.2	232.6	41,400 *				70
75	64.6	228.6	37,600 *	67.1	230.6	39,600 *				75
80	62.5	226.1	36,000 *	65.0	228.3	38,000 *	66.8	229.5	39,400 *	80
85	60.3	223.4	34,400 *	62.9	225.9	36,300 *	64.8	227.3	37,700 *	85
90	58.1	220.4	32,800 *	60.7	223.2	34,800 *	62.6	224.8	36,100 *	90
95	55.8	217.1	31,300 *	58.5	220.3	33,300 *	60.5	222.1	34,600 *	95
100	53.5	213.6	30,000 *	56.2	217.1	31,800 *	58.2	219.1	32,500	100
105	51.1	209.7	28,700 *	53.9	213.6	30,400 *	56.0	215.9	30,500	105
110	48.6	205.5	27,400 *	51.5	209.8	29,100 *	53.6	212.4	28,600	110
115	46.0	200.9	26,200 *	49.0	205.6	27,800 *	51.2	208.5	26,900	115
120	43.2	195.8	25,000 *	46.4	201.1	26,400	48.7	204.3	25,400	120
125	40.4	190.2	23,900 *	43.7	196.1	25,000	46.1	199.7	24,000	125
130	37.3	184.0	22,900 *	40.9	190.6	23,700	43.4	194.7	22,700	130
135	34.0	177.0	21,900 *	37.9	184.5	22,400	40.6	189.1	21,600	135
140	30.5	169.1	21,000 *	34.7	177.7	21,300	37.5	182.9	20,500	140
145	26.5	159.9	20,200 *	31.1	170.0	20,300	34.3	176.0	19,500	145
150	21.8	148.7	19,400 *	27.2	161.0	19,300	30.7	168.2	18,500	150
155	15.9	134.0	18,700 *	22.7	150.3	18,400	26.7	159.1	17,600	155
160	5.6	107.6	17,200 *	17.1	136.5	17,500	22.1	148.1	16,800	160
165				8.4	114.4	16,600	16.3	133.7	16,000	165
170							6.7	109.1	15,200	170
175										175
180										180
185										185
190										190



ANSI B30.5

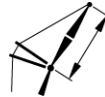
14000 S-1



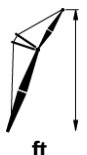
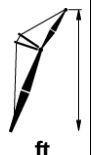
127,000 lb
+
0 lb

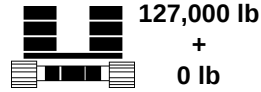
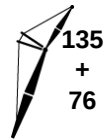


85.3 ft



150.0 ft

										
										
50									50	
55									55	
60									60	
65									65	
70									70	
75									75	
80									80	
85									85	
90									90	
95									95	
100	61.4	221.5	30,500						100	
105	59.2	218.7	28,500						105	
110	57.0	215.6	26,800						110	
115	54.7	212.2	25,200	57.9	214.4	23,500			115	
120	52.3	208.5	23,800	55.6	211.2	22,200			120	
125	49.8	204.4	22,500	53.3	207.6	20,900			125	
130	47.3	200.0	21,200	50.8	203.7	19,800			130	
135	44.6	195.2	20,100	48.3	199.4	18,700	51.7	202.1	17,300	
140	41.8	189.9	19,100	45.7	194.8	17,700	49.3	198.0	16,400	
145	38.9	184.0	18,100	43.0	189.7	16,800	46.7	193.5	15,500	
150	35.7	177.4	17,200	40.1	184.0	16,000	44.0	188.5	14,700	
155	32.3	170.0	16,400	37.1	177.7	15,200	41.2	183.1	14,000	
160	28.6	161.5	15,600	33.8	170.7	14,400	38.2	177.1	13,300	
165	24.3	151.4	14,900	30.1	162.7	13,700	35.0	170.3	12,600	
170	19.1	138.9	14,200	26.1	153.3	13,100	31.5	162.7	12,000	
175	11.9	120.8	13,500	21.3	142.0	12,500	27.6	153.9	11,400	
180				15.3	126.8	11,900	23.2	143.3	10,900	
185				3.5	96.6	11,200	17.7	129.9	10,400	
190							9.6	109.3	9,800	



85.3 ft



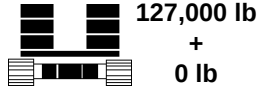
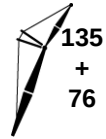
160.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55	73.9	246.8	40,700 *							55
60	72.1	245.3	39,200 *							60
65	70.2	243.6	37,600 *							65
70	68.2	241.7	35,900 *	70.5	243.2	37,900 *				70
75	66.3	239.6	34,300 *	68.6	241.4	36,200 *				75
80	64.3	237.3	32,700 *	66.7	239.3	34,600 *				80
85	62.3	234.8	31,200 *	64.7	237.0	33,000 *	66.4	238.2	34,400 *	85
90	60.3	232.0	29,700 *	62.7	234.6	31,600 *	64.5	236.0	32,900 *	90
95	58.2	229.1	28,300 *	60.7	231.9	30,100 *	62.5	233.5	31,400 *	95
100	56.1	225.8	27,000 *	58.6	228.9	28,700 *	60.4	230.7	29,900 *	100
105	53.9	222.3	25,700 *	56.5	225.7	27,300 *	58.3	227.8	28,500 *	105
110	51.6	218.5	24,500 *	54.3	222.3	26,000 *	56.2	224.6	27,200 *	110
115	49.3	214.4	23,300 *	52.1	218.6	24,800 *	54.0	221.1	25,900 *	115
120	46.9	209.9	22,100 *	49.8	214.5	23,500 *	51.8	217.3	24,600 *	120
125	44.4	205.0	21,000 *	47.4	210.1	22,400 *	49.5	213.2	23,500 *	125
130	41.8	199.7	20,000 *	44.9	205.3	21,300 *	47.1	208.7	22,300 *	130
135	39.0	193.8	19,000 *	42.3	200.0	20,300 *	44.6	203.9	21,300 *	135
140	36.1	187.3	18,100 *	39.5	194.2	19,300 *	42.0	198.6	20,200 *	140
145	32.9	180.0	17,200 *	36.6	187.9	18,400 *	39.2	192.7	19,200 *	145
150	29.5	171.8	16,500 *	33.5	180.8	17,500 *	36.3	186.3	18,200 *	150
155	25.6	162.2	15,700 *	30.1	172.7	16,700 *	33.1	179.1	17,400 *	155
160	21.1	150.6	15,000 *	26.4	163.4	15,900 *	29.7	170.9	16,500 *	160
165	15.4	135.4	14,300 *	22.0	152.2	15,200 *	25.9	161.4	15,800 *	165
170	5.4	108.1	13,600 *	16.5	137.9	14,500 *	21.4	150.0	15,000 *	170
175				8.2	115.1	13,700 *	15.8	135.1	14,300 *	175
180							6.5	109.7	13,600 *	180
185										185
190										190
195										195
200										200

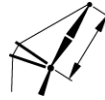


ANSI B30.5

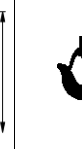
14000 S-1

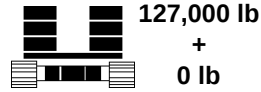
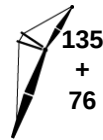


85.3 ft



160.0 ft

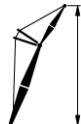
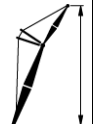
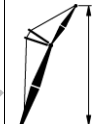
	75°			70°			65°			
										
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	61.3	230.2	28,200							105
110	59.3	227.3	26,500							110
115	57.2	224.2	24,900							115
120	55.0	220.9	23,500							120
125	52.8	217.2	22,100	55.9	219.9	20,600				125
130	50.5	213.3	20,900	53.7	216.3	19,400				130
135	48.1	209.0	19,800	51.4	212.5	18,400				135
140	45.7	204.3	18,800	49.1	208.4	17,400	52.3	210.9	16,000	140
145	43.1	199.2	17,800	46.7	203.8	16,500	50.0	206.9	15,200	145
150	40.5	193.6	16,900	44.2	198.9	15,700	47.6	202.5	14,400	150
155	37.6	187.4	16,100	41.6	193.5	14,900	45.1	197.7	13,700	155
160	34.6	180.6	15,300	38.8	187.6	14,100	42.5	192.5	13,000	160
165	31.3	172.9	14,600	35.8	181.0	13,400	39.8	186.8	12,300	165
170	27.6	164.0	13,900	32.7	173.7	12,800	36.9	180.5	11,700	170
175	23.5	153.6	13,300	29.2	165.4	12,200	33.8	173.4	11,100	175
180	18.5	140.5	12,600	25.2	155.6	11,600	30.5	165.5	10,600	180
185	11.6	121.9	12,000	20.7	143.8	11,000	26.7	156.3	10,100	185
190				14.8	128.2	10,500	22.4	145.4	9,600	190
195				3.4	96.9	9,900	17.1	131.4	9,100	195
200							9.3	110.1	8,600	200



85.3 ft



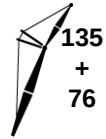
170.0 ft

	 87°			 83°			 80°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
55	74.9	257.2	37,800 *							55
60	73.1	255.7	36,300 *							60
65	71.4	254.1	34,700 *							65
70	69.6	252.4	33,100 *							70
75	67.8	250.4	31,500 *	69.9	252.0	33,400 *				75
80	65.9	248.3	30,100 *	68.1	250.1	31,800 *				80
85	64.1	246.0	28,600 *	66.3	248.0	30,400 *	67.9	249.1	31,500 *	85
90	62.2	243.4	27,200 *	64.4	245.7	28,900 *	66.1	247.0	30,100 *	90
95	60.3	240.7	25,900 *	62.5	243.2	27,500 *	64.2	244.7	28,800 *	95
100	58.3	237.7	24,600 *	60.6	240.5	26,200 *	62.3	242.1	27,300 *	100
105	56.3	234.5	23,300 *	58.7	237.6	24,900 *	60.4	239.4	26,100 *	105
110	54.3	231.0	22,100 *	56.7	234.4	23,700 *	58.4	236.5	24,800 *	110
115	52.2	227.3	21,000 *	54.6	231.0	22,500 *	56.4	233.3	23,600 *	115
120	50.0	223.3	19,900 *	52.5	227.3	21,300 *	54.4	229.8	22,400 *	120
125	47.8	218.9	18,900 *	50.4	223.4	20,200 *	52.3	226.1	21,200 *	125
130	45.4	214.2	17,900 *	48.2	219.1	19,100 *	50.1	222.1	20,100 *	130
135	43.0	209.0	17,000 *	45.9	214.4	18,100 *	47.9	217.7	19,100 *	135
140	40.5	203.4	16,000 *	43.5	209.3	17,200 *	45.6	213.0	18,100 *	140
145	37.8	197.3	15,200 *	41.0	203.8	16,300 *	43.2	207.9	17,100 *	145
150	35.0	190.5	14,300 *	38.3	197.8	15,400 *	40.7	202.4	16,200 *	150
155	31.9	182.9	13,600 *	35.5	191.1	14,600 *	38.0	196.2	15,400 *	155
160	28.6	174.4	12,700 *	32.5	183.7	13,800 *	35.2	189.5	14,600 *	160
165	24.8	164.4	11,800 *	29.2	175.4	13,000 *	32.1	182.0	13,800 *	165
170	20.4	152.4	11,000 *	25.6	165.7	12,000 *	28.8	173.5	12,800 *	170
175	14.9	136.7	10,200 *	21.3	154.2	11,200 *	25.1	163.6	11,900 *	175
180	5.2	108.6	9,700 *	16.0	139.4	10,400 *	20.7	151.8	11,100 *	180
185				7.9	115.8	9,800 *	15.3	136.5	10,300 *	185
190							6.3	110.2	9,700 *	190
195										195
200										200
205										205
210										210



ANSI B30.5

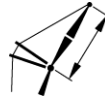
14000 S-1



127,000 lb
+
0 lb



85.3 ft

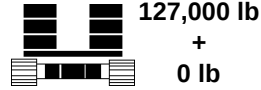
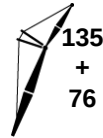


170.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	61.3	238.9	26,200							110
115	59.3	236.0	24,600							115
120	57.3	232.9	23,200							120
125	55.3	229.6	21,900							125
130	53.2	226.0	20,700	56.1	228.5	19,200				130
135	51.1	222.1	19,600	54.1	225.1	18,100				135
140	48.9	217.9	18,500	52.0	221.3	17,100				140
145	46.6	213.4	17,600	49.8	217.2	16,200	52.7	219.6	14,900	145
150	44.3	208.4	16,700	47.6	212.8	15,400	50.6	215.7	14,100	150
155	41.8	203.1	15,900	45.2	208.1	14,600	48.4	211.4	13,400	155
160	39.2	197.2	15,100	42.8	202.9	13,900	46.1	206.8	12,700	160
165	36.4	190.8	14,400	40.3	197.3	13,200	43.7	201.8	12,100	165
170	33.5	183.6	13,700	37.6	191.1	12,600	41.2	196.3	11,500	170
175	30.3	175.6	13,100	34.7	184.2	12,000	38.6	190.3	10,900	175
180	26.8	166.4	12,300 *	31.7	176.6	11,400	35.8	183.7	10,400	180
185	22.8	155.6	11,400 *	28.3	167.9	10,800	32.8	176.4	9,800	185
190	17.9	142.1	10,700 *	24.5	157.8	10,300	29.5	168.1	9,400	190
195	11.2	122.9	10,000 *	20.0	145.6	9,800	25.9	158.6	8,900	195
200				14.3	129.4	9,300	21.7	147.3	8,400	200
205				3.3	97.2	8,800	16.6	132.9	8,000	205
210							9.0	110.9	7,600	210

14000 S-1

ANSI B30.5



95.1 ft



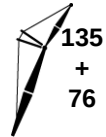
70.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
30	74.4	170.3	110,200 *d							30
32	72.7	169.7	110,200 *c							32
34	71.0	169.1	110,200 *c							34
36	69.3	168.4	110,200 *c							36
38	67.5	167.6	107,900 *c							38
40	65.7	166.7	105,700 *c							40
45	61.2	164.2	100,700 *b	67.2	166.6	97,400 c				45
50	56.4	161.2	88,600 b	62.6	164.3	84,800 b	67.1	165.8	81,900 c	50
55	51.3	157.5	78,300	57.9	161.5	74,900 b	62.6	163.4	72,400 b	55
60	45.8	153.1	70,000	53.0	158.0	67,000 b	57.8	160.6	64,700 b	60
65	39.8	147.7	63,200	47.6	153.9	60,500	52.9	157.1	58,400 b	65
70	32.9	140.9	57,500	41.8	148.8	55,000	47.5	152.9	53,200	70
75	24.3	131.7	52,600	35.2	142.5	50,400	41.7	147.9	48,700	75
80	10.7	115.9	48,400	27.4	134.3	46,400	35.1	141.6	44,800	80
85				16.3	121.8	42,900	27.2	133.3	41,500	85
90							16.1	120.7	38,400	90
95										95
100										100
105										105
110										110
115										115



ANSI B30.5

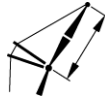
14000 S-1



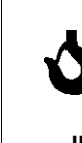
127,000 lb
+
0 lb

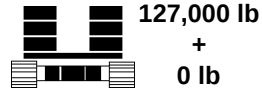
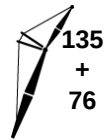


95.1 ft



70.0 ft

	75°			70°			65°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
30										30
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65	60.7	160.4	55,000 b							65
70	55.9	157.3	50,100 b							70
75	50.8	153.6	45,800							75
80	45.3	149.1	42,200	53.8	153.1	39,600 b				80
85	39.3	143.6	39,100	48.5	149.1	36,600				85
90	32.2	136.6	36,300	42.8	144.2	34,000	51.3	147.9	31,800	90
95	23.5	127.2	33,800	36.4	138.1	31,700	45.9	143.5	29,600	95
100	8.6	109.8	31,400	28.8	130.3	29,600	39.8	138.1	27,700	100
105				18.6	118.9	27,700	32.9	131.3	25,900	105
110							24.4	122.2	24,300	110
115							10.8	106.4	22,800	115



95.1 ft



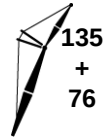
80.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
32	74.9	180.1	100,700 *c							32
34	73.5	179.6	100,700 *c							34
36	72.0	178.9	100,600 *c							36
38	70.4	178.3	99,900 *c							38
40	68.9	177.5	97,900 *c							40
45	65.0	175.4	93,200 *b	70.1	177.4	97,100 c				45
50	61.0	172.9	88,400 b	66.3	175.4	84,500 b				50
55	56.8	169.8	78,100	62.3	173.0	74,600 b	66.2	174.5	72,100 b	55
60	52.4	166.3	69,800	58.2	170.1	66,700 b	62.2	172.1	64,400 b	60
65	47.8	162.1	63,000	53.9	166.8	60,200	58.1	169.2	58,100 b	65
70	42.7	157.1	57,400	49.3	162.8	54,800	53.8	165.8	52,900	70
75	37.1	151.2	52,500	44.4	158.1	50,200	49.2	161.9	48,400	75
80	30.7	143.7	48,400	39.0	152.5	46,200	44.3	157.2	44,600	80
85	22.7	133.8	44,700	32.9	145.6	42,800	38.9	151.5	41,300	85
90	10.0	116.8	41,500	25.6	136.6	39,700	32.8	144.6	38,300	90
95				15.3	123.2	37,000	25.4	135.6	35,700	95
100							15.0	122.0	33,300	100
105										105
110										110
115										115
120										120
125										125



ANSI B30.5

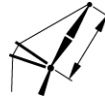
14000 S-1



127,000 lb
+
0 lb

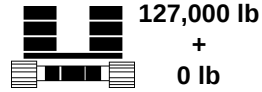
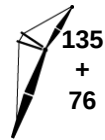


95.1 ft



80.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	60.7	169.0	49,700 lb							70
75	56.5	166.0	45,500							75
80	52.0	162.4	41,900							80
85	47.3	158.1	38,800	54.6	161.8	36,300				85
90	42.3	153.1	36,000	50.1	158.0	33,700				90
95	36.6	147.0	33,500	45.2	153.4	31,400	52.5	156.7	29,200	95
100	30.1	139.4	31,400	39.9	148.0	29,300	47.8	152.5	27,300	100
105	21.9	129.2	29,400	34.0	141.3	27,500	42.7	147.6	25,600	105
110	8.1	110.6	27,500	26.9	132.8	25,800	37.2	141.6	24,000	110
115				17.4	120.5	24,200	30.7	134.2	22,600	115
120							22.8	124.2	21,300	120
125							10.1	107.3	20,000	125



95.1 ft



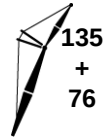
90.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
36	74.0	189.4	89,200 *c							36
38	72.7	188.8	87,400 *c							38
40	71.4	188.2	85,700 *c							40
45	68.0	186.3	81,800 *b							45
50	64.5	184.1	78,000 *b	69.1	186.2	83,400 *b				50
55	60.9	181.5	74,700 *	65.6	184.1	74,400 b				55
60	57.2	178.5	69,700	62.1	181.6	66,500 b	65.5	183.2	64,200 b	60
65	53.3	175.1	62,900	58.4	178.8	60,100	62.0	180.7	57,900 b	65
70	49.2	171.0	57,300	54.6	175.5	54,600	58.3	177.9	52,700	70
75	44.9	166.4	52,400	50.6	171.6	50,100	54.5	174.6	48,300	75
80	40.2	160.9	48,300	46.3	167.2	46,100	50.5	170.7	44,400	80
85	34.9	154.4	44,700	41.7	162.0	42,700	46.2	166.3	41,100	85
90	28.9	146.4	41,600	36.7	155.9	39,600	41.6	161.1	38,200	90
95	21.4	135.8	38,700	31.0	148.4	37,000	36.6	154.9	35,600	95
100	9.5	117.7	36,200	24.1	138.9	34,600	30.9	147.4	33,300	100
105				14.4	124.5	32,400	23.9	137.8	31,200	105
110							14.2	123.3	29,300	110
115										115
120										120
125										125
130										130
135										135



ANSI B30.5

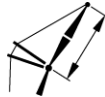
14000 S-1



127,000 lb
+
0 lb

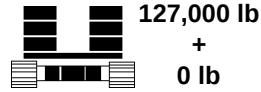
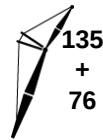


95.1 ft



90.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	60.6	177.7	45,300							75
80	56.9	174.7	41,700							80
85	53.0	171.1	38,600							85
90	48.9	167.1	35,800	55.2	170.5	33,500				90
95	44.5	162.4	33,400	51.2	166.8	31,200				95
100	39.7	156.8	31,200	47.0	162.5	29,100				100
105	34.5	150.2	29,300	42.5	157.4	27,300	49.2	161.4	25,400	105
110	28.4	142.0	27,500	37.6	151.5	25,600	44.9	156.8	23,800	110
115	20.7	131.1	25,900	32.0	144.3	24,100	40.2	151.3	22,400	115
120	7.6	111.2	24,300	25.3	135.1	22,700	35.0	144.8	21,100	120
125				16.4	122.0	21,400	29.0	136.8	19,900	125
130							21.5	126.2	18,800	130
135							9.5	108.2	17,700	135



95.1 ft



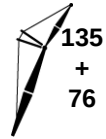
100.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
38	74.5	199.2	81,900 *c							38
40	73.3	198.6	80,300 *c							40
45	70.3	197.0	76,500 *b							45
50	67.2	195.1	72,800 *b							50
55	64.0	192.8	69,500 *	68.2	195.0	74,100 b				55
60	60.8	190.2	66,500 *	65.1	192.8	66,300 b				60
65	57.5	187.2	62,700	61.9	190.3	59,800	65.0	191.9	57,600 b	65
70	54.0	183.8	57,000	58.6	187.4	54,400	61.8	189.4	52,400	70
75	50.4	179.9	52,200	55.1	184.2	49,800	58.5	186.6	47,900	75
80	46.5	175.5	48,100	51.6	180.5	45,800	55.1	183.3	44,100	80
85	42.5	170.4	44,500	47.8	176.2	42,400	51.5	179.5	40,800	85
90	38.0	164.5	41,400	43.8	171.4	39,400	47.7	175.3	37,900	90
95	33.1	157.5	38,600	39.5	165.7	36,700	43.7	170.4	35,400	95
100	27.4	148.9	36,100	34.7	159.1	34,400	39.4	164.8	33,100	100
105	20.3	137.6	33,800	29.3	151.1	32,200	34.6	158.1	31,000	105
110	9.0	118.5	31,700	22.8	140.9	30,300	29.2	150.1	29,100	110
115				13.7	125.7	28,500	22.7	139.9	27,400	115
120							13.4	124.5	25,800	120
125										125
130										130
135										135
140										140
145										145



ANSI B30.5

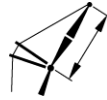
14000 S-1



127,000 lb
+
0 lb



95.1 ft

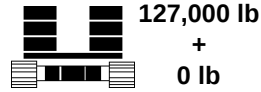
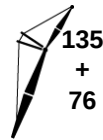


100.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	60.5	186.4	41,300							80
85	57.2	183.3	38,200							85
90	53.7	179.9	35,500							90
95	50.1	176.0	33,100	55.7	179.2	30,800				95
100	46.2	171.5	30,900	52.2	175.6	28,800				100
105	42.1	166.3	29,000	48.4	171.4	27,000				105
110	37.6	160.4	27,200	44.5	166.7	25,300	50.4	170.3	23,400	110
115	32.6	153.2	25,600	40.2	161.2	23,800	46.6	165.9	22,100	115
120	26.9	144.5	24,200	35.6	154.8	22,500	42.5	160.8	20,800	120
125	19.6	132.9	22,800	30.3	147.1	21,200	38.0	154.9	19,600	125
130	7.2	111.9	21,500	24.0	137.3	20,000	33.1	147.9	18,500	130
135				15.5	123.4	18,900	27.4	139.3	17,500	135
140							20.4	128.1	16,600	140
145							9.1	109.0	15,600	145

14000 S-1

ANSI B30.5



95.1 ft



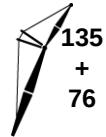
110.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
40	74.8	209.1	74,500 *c							40
45	72.1	207.6	71,500 *b							45
50	69.4	205.8	68,700 *b							50
55	66.5	203.8	66,100 *	70.2	205.7	69,800 *b				55
60	63.7	201.5	63,500 *	67.5	203.7	66,200				60
65	60.7	198.8	61,100 *	64.6	201.5	59,700	67.4	202.9	57,500	65
70	57.7	195.9	57,000	61.7	199.0	54,300	64.6	200.6	52,300	70
75	54.6	192.5	52,200	58.7	196.1	49,700	61.6	198.1	47,900	75
80	51.3	188.7	48,100	55.6	192.9	45,800	58.6	195.2	44,100	80
85	47.9	184.5	44,500	52.4	189.2	42,400	55.5	192.0	40,800	85
90	44.3	179.6	41,400	49.0	185.2	39,400	52.3	188.3	37,900	90
95	40.4	174.2	38,600	45.4	180.5	36,700	48.9	184.2	35,300	95
100	36.2	167.8	36,100	41.7	175.3	34,400	45.4	179.6	33,000	100
105	31.5	160.4	33,900	37.6	169.2	32,200	41.6	174.3	31,000	105
110	26.1	151.3	31,900	33.1	162.2	30,300	37.5	168.3	29,100	110
115	19.4	139.4	30,000	27.9	153.7	28,600	33.0	161.2	27,500	115
120	8.6	119.2	28,300	21.7	142.9	27,000	27.8	152.7	25,900	120
125				13.0	126.9	25,500	21.6	141.8	24,500	125
130							12.8	125.7	23,200	130
135										135
140										140
145										145
150										150
155										155



ANSI B30.5

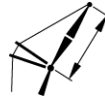
14000 S-1



127,000 lb
+
0 lb

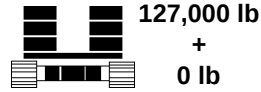
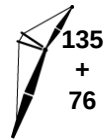


95.1 ft



110.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	ft	
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	60.5	195.0	38,100							85
90	57.4	192.0	35,400							90
95	54.3	188.6	33,000							95
100	51.0	184.8	30,900	56.1	187.9	28,700				100
105	47.6	180.5	28,900	52.9	184.4	26,900				105
110	43.9	175.6	27,200	49.6	180.3	25,300				110
115	40.0	170.1	25,600	46.0	175.8	23,800	51.3	179.1	22,000	115
120	35.8	163.7	24,200	42.3	170.7	22,400	47.9	174.9	20,700	120
125	31.1	156.1	22,900	38.3	164.8	21,200	44.3	170.1	19,600	125
130	25.6	146.8	21,600	33.9	157.9	20,100	40.4	164.6	18,500	130
135	18.7	134.5	20,500	28.9	149.7	19,000	36.2	158.2	17,500	135
140	6.9	112.5	19,400	22.9	139.4	18,000	31.5	150.8	16,600	140
145				14.8	124.7	17,100	26.1	141.7	15,700	145
150							19.4	129.8	14,900	150
155							8.6	109.8	14,100	155



95.1 ft



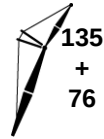
120.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	73.7	218.0	66,300 *b							45
50	71.1	216.4	63,500 *b							50
55	68.6	214.6	61,000 *							55
60	66.0	212.5	58,500 *	69.4	214.5	62,000 *				60
65	63.4	210.2	56,200 *	66.9	212.5	59,400				65
70	60.7	207.5	54,000 *	64.2	210.2	54,000	66.8	211.6	52,000	70
75	57.9	204.5	51,900 *	61.5	207.6	49,400	64.2	209.3	47,600	75
80	55.0	201.2	47,800	58.8	204.8	45,500	61.5	206.7	43,800	80
85	52.1	197.5	44,200	56.0	201.6	42,100	58.7	203.9	40,500	85
90	49.0	193.4	41,100	53.0	198.0	39,100	55.9	200.7	37,600	90
95	45.7	188.8	38,400	50.0	194.0	36,400	53.0	197.1	35,000	95
100	42.3	183.6	35,900	46.8	189.6	34,100	49.9	193.1	32,700	100
105	38.6	177.7	33,700	43.4	184.6	32,000	46.7	188.7	30,700	105
110	34.6	171.0	31,700	39.8	179.0	30,100	43.3	183.7	28,900	110
115	30.1	163.1	29,900	35.9	172.6	28,300	39.7	178.0	27,200	115
120	25.0	153.6	28,200	31.6	165.1	26,800	35.9	171.6	25,700	120
125	18.5	141.0	26,700	26.7	156.1	25,300	31.5	164.1	24,300	125
130	8.2	120.0	25,200	20.8	144.8	24,000	26.6	155.1	23,000	130
135				12.5	128.0	22,700	20.7	143.7	21,800	135
140							12.3	126.8	20,600	140
145										145
150										150
155										155
160										160
165										165



ANSI B30.5

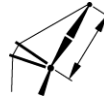
14000 S-1



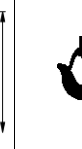
127,000 lb
+
0 lb

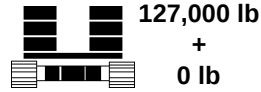
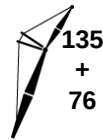


95.1 ft



120.0 ft

	75°			70°			65°			
										
	ft	°	ft	lb	ft	lb	ft	lb	ft	lb
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	60.4	203.7	35,100							90
95	57.7	200.7	32,700							95
100	54.8	197.3	30,500							100
105	51.8	193.6	28,600	56.4	196.6	26,500				105
110	48.7	189.4	26,900	53.5	193.1	24,900				110
115	45.4	184.8	25,300	50.5	189.2	23,400				115
120	42.0	179.6	23,900	47.3	184.8	22,100	52.1	187.9	20,400	120
125	38.3	173.6	22,600	44.0	179.9	20,900	49.0	183.8	19,200	125
130	34.2	166.8	21,400	40.4	174.4	19,700	45.7	179.2	18,200	130
135	29.7	158.8	20,200	36.6	168.2	18,700	42.3	174.0	17,200	135
140	24.5	149.1	19,200	32.4	160.9	17,700	38.6	168.2	16,300	140
145	17.9	136.1	18,200	27.6	152.2	16,800	34.6	161.4	15,400	145
150	6.6	113.1	17,200	21.9	141.4	16,000	30.2	153.6	14,600	150
155				14.2	126.0	15,100	25.0	144.0	13,900	155
160							18.6	131.5	13,200	160
165							8.3	110.5	12,500	165



95.1 ft



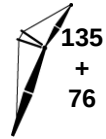
130.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	74.9	228.4	51,400 *b							45
50	72.6	227.0	50,400 *b							50
55	70.3	225.3	49,300 *							55
60	68.0	223.4	48,400 *							60
65	65.6	221.2	47,500 *	68.7	223.3	49,000 *				65
70	63.1	218.8	46,300 *	66.3	221.2	48,100 *				70
75	60.6	216.2	44,500 *	63.9	218.9	47,100 *	66.3	220.3	47,300	75
80	58.1	213.2	42,700 *	61.4	216.3	45,200 *	63.9	218.0	43,500	80
85	55.4	209.9	41,000 *	58.9	213.4	41,900	61.4	215.4	40,200	85
90	52.7	206.3	39,400 *	56.3	210.3	38,900	58.8	212.5	37,300	90
95	49.9	202.3	37,900 *	53.6	206.8	36,200	56.2	209.4	34,800	95
100	46.9	197.9	35,700	50.8	202.9	33,900	53.5	205.8	32,500	100
105	43.8	192.9	33,500	47.9	198.6	31,800	50.7	201.9	30,500	105
110	40.6	187.4	31,500	44.8	193.8	29,900	47.8	197.6	28,700	110
115	37.0	181.2	29,700	41.6	188.5	28,200	44.8	192.9	27,000	115
120	33.2	174.1	28,100	38.2	182.5	26,600	41.6	187.5	25,500	120
125	28.9	165.8	26,500	34.5	175.7	25,100	38.1	181.6	24,100	125
130	24.0	155.7	25,100	30.4	167.9	23,800	34.4	174.7	22,800	130
135	17.8	142.6	23,800	25.7	158.4	22,600	30.3	166.8	21,600	135
140	7.9	120.7	22,600	20.0	146.6	21,400	25.6	157.4	20,500	140
145				12.0	129.1	20,400	19.9	145.5	19,500	145
150							11.8	127.8	18,500	150
155										155
160										160
165										165
170										170
175										175



ANSI B30.5

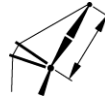
14000 S-1



127,000 lb
+
0 lb

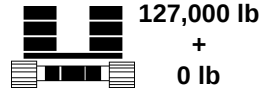
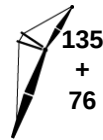


95.1 ft



130.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	62.9	215.0	34,800							90
95	60.4	212.3	32,400							95
100	57.8	209.4	30,300							100
105	55.2	206.1	28,400							105
110	52.5	202.4	26,600	56.7	205.3	24,700				110
115	49.6	198.4	25,100	54.0	201.8	23,200				115
120	46.7	193.9	23,700	51.3	198.0	21,900				120
125	43.6	188.9	22,300	48.4	193.8	20,600	52.7	196.7	19,000	125
130	40.3	183.3	21,200	45.4	189.1	19,500	49.9	192.7	17,900	130
135	36.7	177.0	20,000	42.2	183.9	18,500	46.9	188.2	16,900	135
140	32.9	169.8	19,000	38.8	178.0	17,500	43.8	183.3	16,000	140
145	28.5	161.4	18,100	35.1	171.4	16,600	40.6	177.8	15,200	145
150	23.5	151.2	17,200	31.1	163.7	15,800	37.1	171.6	14,400	150
155	17.2	137.7	16,300	26.5	154.6	15,000	33.2	164.5	13,700	155
160	6.3	113.7	15,500	21.0	143.3	14,300	29.0	156.2	13,000	160
165				13.6	127.2	13,500	24.0	146.2	12,400	165
170							17.8	133.1	11,700	170
175							7.9	111.2	11,100	175



95.1 ft



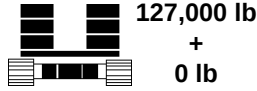
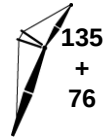
140.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50	73.9	237.4	47,200 *b							50
55	71.8	235.9	46,300 *							55
60	69.6	234.1	45,400 *							60
65	67.4	232.1	44,400 *	70.3	234.0	45,800 *				65
70	65.2	229.9	42,500 *	68.1	232.1	45,100 *				70
75	62.9	227.5	40,800 *	65.9	229.9	43,200 *				75
80	60.6	224.8	39,100 *	63.6	227.6	41,500 *	65.9	229.0	43,100 *	80
85	58.2	221.9	37,500 *	61.3	225.0	39,800 *	63.6	226.7	39,900	85
90	55.8	218.6	35,900 *	59.0	222.1	38,200 *	61.3	224.1	37,000	90
95	53.2	215.1	34,400 *	56.5	218.9	36,000	58.9	221.2	34,500	95
100	50.6	211.1	33,000 *	54.1	215.5	33,600	56.5	218.0	32,200	100
105	47.9	206.8	31,600 *	51.5	211.7	31,500	54.0	214.6	30,200	105
110	45.1	202.1	30,300 *	48.8	207.5	29,600	51.4	210.8	28,400	110
115	42.2	196.9	29,100 *	46.0	202.9	27,900	48.8	206.6	26,700	115
120	39.0	191.0	27,800	43.1	197.9	26,300	46.0	202.0	25,200	120
125	35.6	184.5	26,300	40.0	192.2	24,900	43.1	196.9	23,800	125
130	32.0	177.0	24,900	36.8	185.9	23,600	40.0	191.3	22,500	130
135	27.9	168.3	23,700	33.2	178.8	22,300	36.7	184.9	21,400	135
140	23.1	157.8	22,500	29.2	170.5	21,200	33.1	177.8	20,300	140
145	17.1	144.2	21,300	24.7	160.7	20,200	29.2	169.5	19,300	145
150	7.6	121.3	20,300	19.2	148.3	19,200	24.6	159.6	18,300	150
155				11.5	130.1	18,200	19.1	147.2	17,400	155
160							11.3	128.8	16,600	160
165										165
170										170
175										175
180										180
185										185

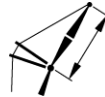


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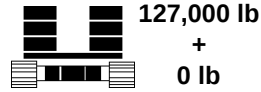
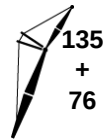


95.1 ft



140.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	62.7	223.7	32,100							95
100	60.4	221.0	29,900							100
105	58.0	218.0	28,000							105
110	55.5	214.7	26,300							110
115	53.0	211.1	24,800	57.0	214.0	22,800				115
120	50.4	207.2	23,300	54.5	210.6	21,500				120
125	47.7	202.9	22,000	51.9	206.8	20,300				125
130	44.9	198.1	20,800	49.3	202.7	19,200				130
135	41.9	192.8	19,700	46.5	198.2	18,100	50.7	201.5	16,600	135
140	38.7	186.9	18,700	43.6	193.2	17,200	48.0	197.2	15,700	140
145	35.3	180.3	17,800	40.6	187.7	16,300	45.1	192.5	14,800	145
150	31.6	172.7	16,900	37.3	181.5	15,500	42.2	187.3	14,100	150
155	27.5	163.9	16,100	33.8	174.5	14,700	39.0	181.4	13,400	155
160	22.6	153.2	15,300	29.9	166.4	14,000	35.7	174.9	12,700	160
165	16.5	139.2	14,500	25.5	156.9	13,300	32.0	167.4	12,000	165
170	6.1	114.2	13,800	20.2	145.1	12,600	27.9	158.7	11,400	170
175				13.1	128.4	12,000	23.1	148.2	10,900	175
180							17.2	134.6	10,300	180
185							7.7	111.9	9,800	185



95.1 ft



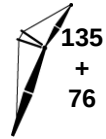
150.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55	73.0	246.4	43,300 *							55
60	71.0	244.7	42,500 *							60
65	69.0	242.9	41,000 *							65
70	66.9	240.9	39,300 *	69.6	242.8	41,600 *				70
75	64.8	238.6	37,600 *	67.6	240.8	39,900 *				75
80	62.7	236.2	36,000 *	65.5	238.6	38,300 *	67.6	239.9	39,800 *	80
85	60.5	233.5	34,400 *	63.4	236.3	36,600 *	65.5	237.8	38,200 *	85
90	58.3	230.5	32,900 *	61.2	233.6	35,100 *	63.4	235.4	36,500 *	90
95	56.0	227.3	31,500 *	59.0	230.8	33,500 *	61.2	232.7	34,400	95
100	53.7	223.8	30,100 *	56.8	227.6	32,100 *	59.0	229.9	32,100	100
105	51.3	219.9	28,800 *	54.5	224.2	30,700 *	56.7	226.7	30,100	105
110	48.8	215.8	27,500 *	52.1	220.5	29,400 *	54.4	223.3	28,300	110
115	46.2	211.2	26,300 *	49.6	216.4	27,800	52.0	219.6	26,600	115
120	43.5	206.2	25,200 *	47.1	212.0	26,200	49.6	215.5	25,100	120
125	40.7	200.6	24,100 *	44.4	207.1	24,800	47.0	211.0	23,700	125
130	37.6	194.5	23,000 *	41.6	201.7	23,500	44.3	206.1	22,400	130
135	34.4	187.6	22,100 *	38.6	195.8	22,300	41.5	200.8	21,300	135
140	30.9	179.8	21,100 *	35.5	189.2	21,100	38.6	194.8	20,200	140
145	26.9	170.7	20,300 *	32.0	181.7	20,100	35.4	188.2	19,200	145
150	22.3	159.8	19,600 *	28.2	173.1	19,100	32.0	180.7	18,300	150
155	16.6	145.6	18,800 *	23.9	162.8	18,200	28.1	172.0	17,400	155
160	7.3	122.0	18,400	18.6	150.0	17,400	23.8	161.8	16,600	160
165				11.1	131.1	16,500	18.5	148.8	15,800	165
170							11.0	129.8	15,000	170
175										175
180										180
185										185
190										190
195										195



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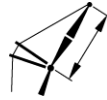
14000 S-1



127,000 lb
+
0 lb

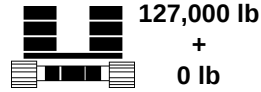
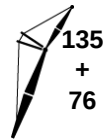


95.1 ft



150.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	62.5	232.4	29,800							100
105	60.4	229.7	27,900							105
110	58.1	226.7	26,200							110
115	55.9	223.4	24,600							115
120	53.5	219.9	23,200	57.2	222.6	21,400				120
125	51.1	216.0	21,900	54.9	219.3	20,200				125
130	48.6	211.8	20,700	52.5	215.6	19,100				130
135	46.0	207.2	19,600	50.0	211.6	18,000				135
140	43.3	202.1	18,600	47.5	207.2	17,100	51.3	210.4	15,600	140
145	40.4	196.6	17,700	44.8	202.4	16,200	48.8	206.2	14,700	145
150	37.4	190.4	16,800	42.1	197.1	15,400	46.2	201.6	14,000	150
155	34.1	183.4	16,000	39.1	191.3	14,600	43.5	196.6	13,300	155
160	30.5	175.5	15,200	36.0	184.8	13,900	40.7	191.0	12,600	160
165	26.5	166.3	14,500	32.6	177.5	13,200	37.7	184.9	12,000	165
170	21.9	155.2	13,800	28.9	169.1	12,600	34.4	178.0	11,400	170
175	16.0	140.6	13,100	24.6	159.1	12,000	30.9	170.2	10,800	175
180	5.9	114.7	12,500	19.6	146.8	11,400	26.9	161.2	10,300	180
185				12.7	129.5	10,800	22.3	150.2	9,800	185
190							16.6	136.1	9,300	190
195							7.4	112.6	8,800	195



95.1 ft



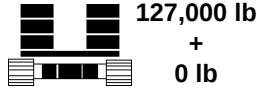
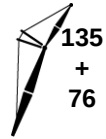
160.0 ft

	87°			83°			80°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
55	74.1	256.8	40,300 *							55
60	72.3	255.3	39,300 *							60
65	70.4	253.6	37,500 *							65
70	68.4	251.7	35,900 *	71.0	253.4	38,100 *				70
75	66.5	249.6	34,300 *	69.1	251.6	36,400 *				75
80	64.5	247.3	32,800 *	67.1	249.6	34,900 *				80
85	62.5	244.9	31,300 *	65.2	247.4	33,400 *	67.1	248.7	34,800 *	85
90	60.5	242.1	29,800 *	63.2	244.9	31,900 *	65.1	246.5	33,200 *	90
95	58.4	239.2	28,400 *	61.2	242.3	30,300 *	63.1	244.0	31,800 *	95
100	56.3	236.0	27,100 *	59.1	239.4	29,000 *	61.1	241.4	30,400 *	100
105	54.1	232.5	25,800 *	57.0	236.3	27,600 *	59.1	238.5	29,000 *	105
110	51.9	228.7	24,500 *	54.8	232.9	26,300 *	56.9	235.4	27,600 *	110
115	49.6	224.7	23,400 *	52.6	229.3	25,100 *	54.8	232.0	26,300 *	115
120	47.2	220.2	22,300 *	50.3	225.3	23,900 *	52.6	228.3	24,800 *	120
125	44.7	215.4	21,200 *	47.9	220.9	22,700 *	50.3	224.3	23,400 *	125
130	42.1	210.1	20,100 *	45.5	216.2	21,600 *	47.9	220.0	22,200 *	130
135	39.3	204.3	19,200 *	42.9	211.1	20,600 *	45.4	215.3	21,000 *	135
140	36.4	197.8	18,200 *	40.2	205.5	19,600 *	42.9	210.1	19,900 *	140
145	33.3	190.6	17,400 *	37.4	199.2	18,600 *	40.2	204.5	18,900 *	145
150	29.8	182.5	16,600 *	34.3	192.3	17,700 *	37.3	198.3	18,000 *	150
155	26.0	173.1	15,800 *	31.0	184.5	16,900 *	34.2	191.3	17,100 *	155
160	21.6	161.7	15,100 *	27.3	175.5	16,100 *	30.9	183.5	16,300 *	160
165	16.0	147.1	14,500 *	23.1	164.9	15,300 *	27.2	174.5	15,500 *	165
170	7.1	122.6	13,700 *	18.0	151.6	14,700 *	23.0	163.9	14,800 *	170
175				10.8	132.1	13,900 *	17.9	150.4	14,100 *	175
180							10.6	130.7	13,400 *	180
185										185
190										190
195										195
200										200
205										205

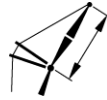


ANSI B30.5

14000 S-1

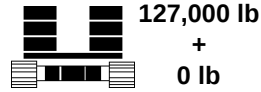
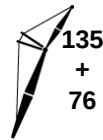


95.1 ft



160.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	62.4	241.1	27,600							105
110	60.3	238.3	25,900							110
115	58.2	235.4	24,300							115
120	56.1	232.1	22,900							120
125	53.9	228.6	21,600	57.3	231.3	19,800				125
130	51.7	224.8	20,400	55.2	228.0	18,700				130
135	49.4	220.7	19,300	53.0	224.4	17,700				135
140	47.0	216.2	18,300	50.7	220.4	16,700				140
145	44.5	211.4	17,400	48.3	216.2	15,900	51.9	219.1	14,400	145
150	41.8	206.0	16,500	45.9	211.5	15,000	49.6	215.1	13,600	150
155	39.1	200.2	15,700	43.4	206.4	14,300	47.2	210.6	12,900	155
160	36.1	193.7	14,900	40.7	200.9	13,600	44.7	205.8	12,200	160
165	33.0	186.4	14,200	37.8	194.8	12,900	42.1	200.5	11,600	165
170	29.5	178.2	13,500	34.8	188.0	12,300	39.3	194.7	11,000	170
175	25.7	168.6	12,900	31.6	180.3	11,700	36.4	188.2	10,500	175
180	21.2	157.1	12,300	27.9	171.6	11,100	33.3	181.1	10,000	180
185	15.5	142.0	11,700	23.8	161.3	10,600	29.9	172.9	9,500	185
190	5.7	115.2	11,100	18.9	148.5	10,100	26.0	163.5	9,000	190
195				12.3	130.6	9,600	21.6	152.2	8,500	195
200							16.1	137.5	8,100	200
205							7.2	113.2	7,600	205



95.1 ft



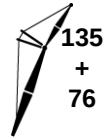
170.0 ft

	87°			83°			80°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
60	73.3	265.7	36,200 *							60
65	71.6	264.1	34,600 *							65
70	69.8	262.4	33,100 *							70
75	68.0	260.5	31,600 *	70.3	262.2	33,600 *				75
80	66.1	258.4	30,100 *	68.5	260.4	32,100 *				80
85	64.3	256.0	28,700 *	66.7	258.3	30,600 *				85
90	62.4	253.5	27,300 *	64.9	256.1	29,200 *	66.7	257.4	30,500 *	90
95	60.5	250.8	26,000 *	63.0	253.6	27,800 *	64.8	255.2	29,100 *	95
100	58.5	247.9	24,700 *	61.1	251.0	26,500 *	63.0	252.7	27,700 *	100
105	56.5	244.7	23,400 *	59.2	248.1	25,200 *	61.1	250.1	26,400 *	105
110	54.5	241.2	22,300 *	57.2	245.0	23,900 *	59.1	247.2	25,100 *	110
115	52.4	237.5	21,100 *	55.1	241.6	22,700 *	57.1	244.1	23,900 *	115
120	50.2	233.5	20,100 *	53.1	238.0	21,600 *	55.1	240.7	22,800 *	120
125	48.0	229.2	19,000 *	50.9	234.1	20,500 *	53.0	237.1	21,600 *	125
130	45.7	224.5	18,000 *	48.7	229.9	19,400 *	50.9	233.2	20,500 *	130
135	43.3	219.4	17,000 *	46.4	225.3	18,400 *	48.7	228.9	19,400 *	135
140	40.8	213.9	16,200 *	44.1	220.4	17,400 *	46.4	224.4	18,400 *	140
145	38.1	207.8	15,300 *	41.6	215.0	16,500 *	44.0	219.4	17,400 *	145
150	35.3	201.1	14,500 *	39.0	209.1	15,700 *	41.5	214.0	16,500 *	150
155	32.2	193.6	13,700 *	36.2	202.6	14,800 *	38.9	208.1	15,700 *	155
160	28.9	185.1	12,800 *	33.2	195.4	14,100 *	36.2	201.6	14,800 *	160
165	25.2	175.4	11,900 *	30.0	187.2	13,200 *	33.2	194.4	14,100 *	165
170	20.9	163.6	11,100 *	26.5	177.9	12,200 *	30.0	186.2	13,200 *	170
175	15.6	148.5	10,300 *	22.4	166.9	11,400 *	26.4	176.9	12,200 *	175
180	6.9	123.2	9,700 *	17.5	153.1	10,600 *	22.3	165.9	11,400 *	180
185				10.5	133.0	9,900 *	17.4	152.0	10,600 *	185
190							10.3	131.7	9,900 *	190
195										195
200										200
205										205
210										210
215										215



ANSI B30.5

14000 S-1



127,000 lb
+
0 lb



95.1 ft

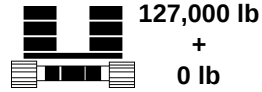
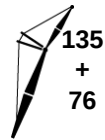


170.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	62.2	249.7	25,600							110
115	60.3	247.0	24,100							115
120	58.3	244.0	22,600							120
125	56.3	240.8	21,400							125
130	54.3	237.4	20,200	57.5	240.0	18,400				130
135	52.2	233.6	19,100	55.5	236.7	17,400				135
140	50.0	229.6	18,100	53.4	233.1	16,500				140
145	47.8	225.2	17,100	51.3	229.2	15,600				145
150	45.5	220.5	16,300	49.1	225.1	14,800	52.4	227.9	13,400	150
155	43.1	215.4	15,500	46.8	220.6	14,000	50.2	223.9	12,700	155
160	40.5	209.8	14,700	44.5	215.7	13,300	48.0	219.6	12,000	160
165	37.9	203.7	14,000	42.0	210.4	12,700	45.7	214.9	11,400	165
170	35.0	196.9	13,300	39.4	204.6	12,000	43.3	209.8	10,800	170
175	32.0	189.3	12,700	36.7	198.2	11,400	40.8	204.3	10,200	175
180	28.6	180.8	12,100	33.8	191.1	10,900	38.1	198.2	9,700	180
185	24.9	170.9	11,500	30.6	183.1	10,400	35.3	191.5	9,200	185
190	20.5	158.9	11,000	27.1	174.0	9,900	32.3	184.0	8,800	190
195	15.0	143.3	10,300 *	23.1	163.4	9,400	29.0	175.6	8,300	195
200	5.5	115.7	9,700 *	18.4	150.2	8,900	25.3	165.8	7,900	200
205				11.9	131.7	8,500	21.0	154.1	7,500	205
210							15.6	138.9	7,100	210
215							6.9	113.8	6,700	215

14000 S-1

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105.0 ft



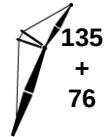
70.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
30	74.9	180.3	107,300 *d							30
32	73.2	179.7	107,300 *d							32
34	71.5	179.1	107,300 *c							34
36	69.7	178.4	107,300 *c							36
38	68.0	177.6	107,300 *c							38
40	66.2	176.7	105,600 *c							40
45	61.6	174.3	100,700 *b	68.2	176.9	96,700 c				45
50	56.9	171.3	88,400 b	63.7	174.7	84,200 b				50
55	51.8	167.7	78,100	59.1	172.0	74,400 b	64.1	174.0	71,600 b	55
60	46.4	163.4	69,800	54.2	168.7	66,500 b	59.5	171.3	64,000 b	60
65	40.5	158.1	63,100	48.9	164.7	60,000	54.6	168.0	57,800 b	65
70	33.7	151.5	57,400	43.3	159.9	54,600	49.4	164.1	52,600	70
75	25.3	142.7	52,500	36.9	153.9	50,000	43.8	159.4	48,200	75
80	12.8	128.2	48,300	29.4	146.3	46,100	37.5	153.6	44,300	80
85				19.5	135.3	42,600	30.1	146.1	41,000	85
90							20.5	135.5	38,100	90
95										95
100										100
105										105
110										110
115										115
120										120



ANSI B30.5

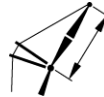
14000 S-1



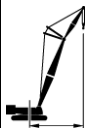
127,000 lb
+
0 lb



105.0 ft

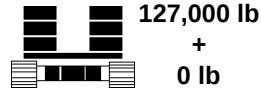
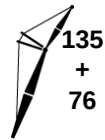


70.0 ft

	 75°			 70°			 65°				
	 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
30											30
32											32
34											34
36											36
38											38
40											40
45											45
50											50
55											55
60											60
65											65
70	58.4	168.4	49,200 b								70
75	53.5	165.1	45,000 b								75
80	48.2	161.0	41,400	57.1	164.7	38,600 b					80
85	42.4	156.1	38,300	52.1	161.1	35,700					85
90	36.0	149.9	35,600	46.7	156.8	33,100					90
95	28.3	141.9	33,200	40.8	151.6	30,900	50.4	156.1	28,600		95
100	17.8	130.2	30,900	34.1	145.1	28,800	44.9	151.6	26,700		100
105				25.9	136.4	27,000	38.7	146.0	25,000		105
110				13.8	122.6	25,300	31.6	138.9	23,500		110
115							22.7	129.2	22,000		115
120							6.2	109.7	20,600		120

14000 S-1

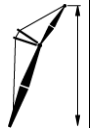
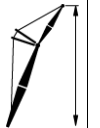
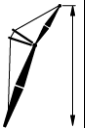
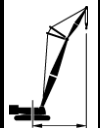
ANSI B30.5



105.0 ft



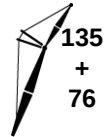
80.0 ft

	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34	73.8	189.6	98,100 *c							34
36	72.3	188.9	98,100 *c							36
38	70.8	188.3	98,000 *c							38
40	69.3	187.6	97,700 *c							40
45	65.4	185.5	93,100 *b							45
50	61.4	183.0	88,100 b	67.2	185.7	83,900 b				50
55	57.3	180.0	77,900	63.3	183.4	74,100 b	67.5	184.9	71,200 b	55
60	52.9	176.5	69,600	59.2	180.6	66,200 b	63.6	182.6	63,700 b	60
65	48.3	172.4	62,900	54.9	177.4	59,800	59.5	179.9	57,500 b	65
70	43.3	167.5	57,200	50.4	173.6	54,400	55.3	176.7	52,300	70
75	37.7	161.7	52,400	45.6	169.1	49,800	50.8	173.0	47,900	75
80	31.4	154.4	48,300	40.3	163.7	45,900	46.0	168.6	44,100	80
85	23.7	144.9	44,600	34.4	157.2	42,500	40.8	163.3	40,800	85
90	12.0	129.3	41,400	27.5	148.8	39,400	35.0	156.8	37,900	90
95				18.3	137.0	36,700	28.1	148.7	35,300	95
100							19.2	137.3	33,000	100
105										105
110										110
115										115
120										120
125										125
130										130



ANSI B30.5

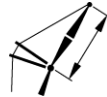
14000 S-1



127,000 lb
+
0 lb

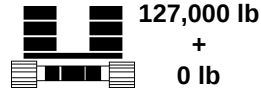
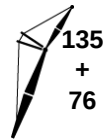


105.0 ft



80.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	62.7	179.9	48,800 lb							70
75	58.6	177.1	44,700							75
80	54.3	173.8	41,100							80
85	49.8	169.9	38,000	57.5	173.3	35,300				85
90	44.9	165.3	35,300	53.1	169.9	32,700				90
95	39.6	159.8	32,900	48.5	165.8	30,500				95
100	33.6	153.1	30,800	43.6	161.0	28,500	51.7	165.0	26,300	100
105	26.4	144.4	28,800	38.1	155.2	26,700	47.0	160.7	24,600	105
110	16.6	131.7	27,000	31.8	148.0	25,100	41.8	155.6	23,100	110
115				24.2	138.6	23,600	36.2	149.4	21,700	115
120				12.9	123.7	22,200	29.6	141.6	20,500	120
125							21.2	131.1	19,300	125
130							5.8	110.2	18,100	130



105.0 ft



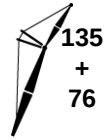
90.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36	74.4	199.4	88,200 *c							36
38	73.0	198.8	87,100 *c							38
40	71.7	198.2	85,500 *c							40
45	68.3	196.3	81,600 *b							45
50	64.8	194.2	78,000 *b	69.9	196.4	83,700 b				50
55	61.3	191.6	74,700 *	66.4	194.4	73,900 b				55
60	57.6	188.7	69,500	62.9	192.1	66,000 b	66.7	193.7	63,500 b	60
65	53.7	185.3	62,800	59.3	189.3	59,600	63.2	191.3	57,300 b	65
70	49.7	181.3	57,100	55.5	186.1	54,200	59.6	188.6	52,100	70
75	45.3	176.7	52,300	51.5	182.4	49,700	55.8	185.4	47,700	75
80	40.7	171.4	48,200	47.4	178.1	45,800	51.9	181.8	43,900	80
85	35.5	165.0	44,600	42.9	173.1	42,300	47.7	177.6	40,600	85
90	29.6	157.1	41,500	37.9	167.2	39,300	43.2	172.6	37,800	90
95	22.3	146.9	38,600	32.4	160.2	36,700	38.4	166.9	35,200	95
100	11.3	130.3	36,100	25.9	151.2	34,300	32.9	159.9	32,900	100
105				17.2	138.5	32,100	26.5	151.1	30,900	105
110							18.1	138.9	29,000	110
115										115
120										120
125										125
130										130
135										135
140										140



ANSI B30.5

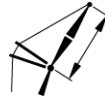
14000 S-1



127,000 lb
+
0 lb



105.0 ft

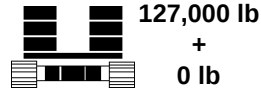
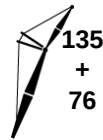


90.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	62.4	188.6	44,400 lb							75
80	58.8	185.8	40,900							80
85	55.0	182.5	37,800							85
90	51.0	178.7	35,100	57.8	182.0	32,500				90
95	46.8	174.4	32,700	53.9	178.6	30,300				95
100	42.2	169.3	30,600	49.9	174.7	28,300				100
105	37.2	163.3	28,700	45.6	170.2	26,500	52.7	173.7	24,400	105
110	31.6	156.0	26,900	40.9	164.9	24,900	48.5	169.6	22,900	110
115	24.9	146.7	25,400	35.8	158.5	23,400	44.1	164.9	21,500	115
120	15.7	133.1	23,900	30.0	150.8	22,100	39.4	159.2	20,300	120
125				22.8	140.7	20,800	34.0	152.5	19,100	125
130				12.2	124.8	19,700	27.8	144.2	18,100	130
135							20.0	132.9	17,100	135
140							5.4	110.7	16,100	140

14000 S-1

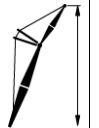
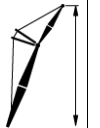
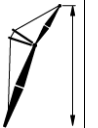
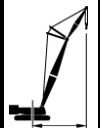
ANSI B30.5



105.0 ft



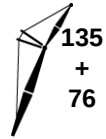
100.0 ft

	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38	74.8	209.2	80,500 *c							38
40	73.6	208.6	80,000 *c							40
45	70.6	207.0	76,300 *b							45
50	67.5	205.1	72,800 *b							50
55	64.4	202.9	69,500 *	68.9	205.2	73,600 b				55
60	61.1	200.3	66,500 *	65.8	203.1	65,700 b				60
65	57.8	197.3	62,500	62.6	200.7	59,300	66.1	202.4	56,900 b	65
70	54.4	194.0	56,900	59.4	197.9	53,900	62.9	200.0	51,800	70
75	50.8	190.2	52,100	56.0	194.8	49,400	59.6	197.3	47,400	75
80	47.0	185.8	48,000	52.4	191.2	45,500	56.3	194.1	43,600	80
85	42.9	180.8	44,400	48.7	187.1	42,100	52.7	190.6	40,300	85
90	38.5	175.0	41,300	44.8	182.4	39,100	49.0	186.5	37,500	90
95	33.6	168.1	38,500	40.6	176.9	36,400	45.1	181.9	34,900	95
100	28.0	159.7	36,000	35.9	170.6	34,100	40.9	176.5	32,700	100
105	21.2	148.8	33,700	30.7	163.0	32,000	36.3	170.2	30,600	105
110	10.7	131.3	31,700	24.5	153.4	30,000	31.2	162.8	28,800	110
115				16.3	140.0	28,300	25.1	153.4	27,100	115
120							17.1	140.5	25,500	120
125										125
130										130
135										135
140										140
145										145
150										150



ANSI B30.5

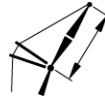
14000 S-1



127,000 lb
+
0 lb



105.0 ft

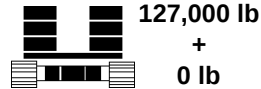
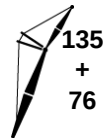


100.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	ft	
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	62.2	197.3	40,500							80
85	58.9	194.4	37,400							85
90	55.5	191.2	34,800							90
95	51.9	187.5	32,400							95
100	48.2	183.4	30,300	54.6	187.4	27,900				100
105	44.2	178.6	28,400	51.0	183.6	26,100				105
110	40.0	173.0	26,700	47.2	179.2	24,500				110
115	35.3	166.5	25,100	43.1	174.2	23,100	49.8	178.5	21,100	115
120	29.9	158.7	23,700	38.8	168.5	21,800	45.9	174.0	19,900	120
125	23.6	148.8	22,300	33.9	161.7	20,600	41.8	168.8	18,800	125
130	14.9	134.4	21,100	28.4	153.4	19,400	37.3	162.7	17,700	130
135				21.6	142.7	18,400	32.2	155.5	16,800	135
140				11.5	125.9	17,400	26.4	146.6	15,900	140
145							18.9	134.6	15,000	145
150							5.2	111.2	14,100	150

14000 S-1

ANSI B30.5



105.0 ft



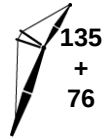
110.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	72.4	217.6	71,200 *b							45
50	69.6	215.8	68,400 *b							50
55	66.8	213.8	65,800 *	70.9	215.9	69,800 *b				55
60	64.0	211.6	63,400 *	68.1	214.0	65,600 b				60
65	61.0	208.9	61,000 *	65.3	211.9	59,200				65
70	58.0	206.0	56,800	62.4	209.4	53,900	65.5	211.1	51,700	70
75	54.9	202.7	52,000	59.4	206.6	49,300	62.6	208.7	47,300	75
80	51.6	199.0	47,900	56.3	203.5	45,400	59.7	205.9	43,500	80
85	48.2	194.8	44,400	53.1	199.9	42,000	56.6	202.8	40,300	85
90	44.6	190.0	41,200	49.8	195.9	39,100	53.4	199.3	37,400	90
95	40.8	184.6	38,500	46.3	191.5	36,400	50.1	195.4	34,900	95
100	36.6	178.4	36,000	42.6	186.4	34,100	46.6	190.9	32,600	100
105	32.0	171.0	33,800	38.6	180.5	32,000	42.9	185.9	30,600	105
110	26.7	162.1	31,800	34.2	173.7	30,100	38.9	180.1	28,800	110
115	20.2	150.6	30,000	29.2	165.7	28,300	34.6	173.4	27,100	115
120	10.2	132.2	28,200	23.4	155.6	26,800	29.7	165.5	25,600	120
125				15.5	141.4	25,300	23.9	155.6	24,200	125
130							16.3	141.9	22,900	130
135										135
140										140
145										145
150										150
155										155
160										160



ANSI B30.5

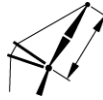
14000 S-1



127,000 lb
+
0 lb

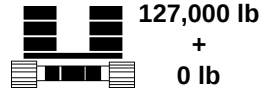
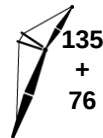


105.0 ft



110.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	62.0	205.9	37,400							85
90	59.0	203.1	34,700							90
95	55.9	199.9	32,300							95
100	52.7	196.3	30,200							100
105	49.4	192.3	28,300	55.1	196.1	26,100				105
110	45.8	187.7	26,600	51.8	192.4	24,500				110
115	42.1	182.5	25,100	48.4	188.2	23,100				115
120	38.0	176.6	23,700	44.9	183.4	21,700	50.8	187.4	19,900	120
125	33.6	169.6	22,400	41.0	178.1	20,500	47.3	183.0	18,800	125
130	28.5	161.3	21,200	36.9	171.9	19,400	43.6	178.1	17,700	130
135	22.5	150.8	20,000	32.3	164.6	18,400	39.7	172.5	16,800	135
140	14.2	135.7	19,000	27.0	155.9	17,400	35.5	166.0	15,900	140
145				20.6	144.5	16,500	30.7	158.3	15,100	145
150				11.0	126.8	15,700	25.1	148.9	14,300	150
155							18.0	136.2	13,500	155
160							4.9	111.6	12,800	160



105.0 ft



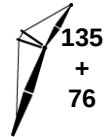
120.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	73.9	228.0	66,000 *b							45
50	71.4	226.4	63,300 *b							50
55	68.9	224.6	60,800 *							55
60	66.3	222.6	58,400 *	70.0	224.7	62,100 *b				60
65	63.7	220.2	56,100 *	67.5	222.8	58,900				65
70	61.0	217.6	53,900 *	64.9	220.6	53,600	67.7	222.0	51,300	70
75	58.2	214.7	51,800	62.2	218.1	49,000	65.1	219.8	47,000	75
80	55.3	211.4	47,700	59.5	215.3	45,100	62.4	217.4	43,200	80
85	52.4	207.7	44,100	56.6	212.1	41,700	59.7	214.6	40,000	85
90	49.3	203.7	41,000	53.7	208.7	38,800	56.9	211.5	37,100	90
95	46.1	199.1	38,200	50.7	204.8	36,100	54.0	208.1	34,600	95
100	42.6	194.0	35,800	47.6	200.5	33,800	51.0	204.2	32,300	100
105	39.0	188.2	33,600	44.2	195.6	31,700	47.8	199.9	30,300	105
110	35.0	181.6	31,600	40.7	190.2	29,800	44.5	195.1	28,500	110
115	30.6	173.8	29,800	36.9	183.9	28,100	41.0	189.7	26,800	115
120	25.6	164.5	28,100	32.7	176.7	26,500	37.2	183.6	25,300	120
125	19.3	152.4	26,600	28.0	168.2	25,100	33.1	176.5	23,900	125
130	9.8	133.1	25,100	22.4	157.6	23,800	28.4	168.1	22,700	130
135				14.9	142.7	22,500	22.9	157.6	21,500	135
140							15.6	143.3	20,400	140
145										145
150										150
155										155
160										160
165										165
170										170



ANSI B30.5

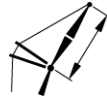
14000 S-1



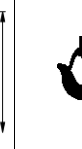
127,000 lb
+
0 lb



105.0 ft

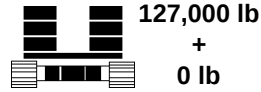
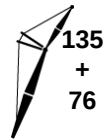


120.0 ft

	75°			70°			65°			
										
	ft	°	ft	lb	ft	lb	ft	lb	ft	°
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	61.8	214.6	34,300							90
95	59.1	211.8	32,000							95
100	56.3	208.6	29,900							100
105	53.3	205.1	28,000							105
110	50.3	201.1	26,300	55.5	204.8	24,100				110
115	47.1	196.7	24,700	52.5	201.1	22,700				115
120	43.8	191.8	23,300	49.5	197.1	21,400				120
125	40.2	186.3	22,100	46.3	192.6	20,200	51.6	196.2	18,400	125
130	36.3	179.9	20,900	42.8	187.5	19,100	48.4	192.0	17,300	130
135	32.1	172.6	19,800	39.2	181.7	18,100	45.2	187.3	16,400	135
140	27.3	163.8	18,800	35.3	175.1	17,100	41.7	182.0	15,500	140
145	21.5	152.8	17,800	30.9	167.5	16,200	38.0	176.0	14,700	145
150	13.6	136.9	16,900	25.9	158.2	15,400	33.9	169.1	14,000	150
155				19.7	146.3	14,600	29.4	161.0	13,200	155
160				10.5	127.8	13,900	24.0	151.1	12,600	160
165							17.3	137.8	11,900	165
170							4.7	112.1	11,300	170

14000 S-1

ANSI B30.5



105.0 ft



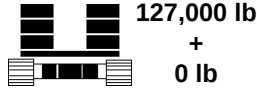
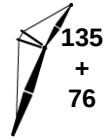
130.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50	72.9	236.9	49,800 *b							50
55	70.6	235.3	48,800 *							55
60	68.2	233.4	47,900 *							60
65	65.8	231.3	47,000 *	69.3	233.5	48,600 *				65
70	63.4	228.9	46,200 *	66.9	231.5	47,800 *				70
75	60.9	226.3	44,500 *	64.5	229.2	47,000 *	67.1	230.7	46,700	75
80	58.3	223.4	42,800 *	62.0	226.7	44,900	64.7	228.5	43,000	80
85	55.7	220.1	41,100 *	59.5	223.9	41,500	62.2	226.0	39,700	85
90	53.0	216.5	39,500 *	56.9	220.8	38,600	59.7	223.2	36,900	90
95	50.2	212.6	37,900 *	54.2	217.4	35,900	57.1	220.2	34,300	95
100	47.2	208.1	35,600	51.5	213.6	33,600	54.5	216.8	32,100	100
105	44.2	203.3	33,400	48.6	209.4	31,500	51.7	213.0	30,100	105
110	40.9	197.8	31,400	45.6	204.8	29,600	48.8	208.9	28,300	110
115	37.4	191.7	29,600	42.4	199.6	27,900	45.8	204.3	26,600	115
120	33.6	184.7	28,000	39.0	193.8	26,300	42.7	199.1	25,100	120
125	29.4	176.5	26,500	35.4	187.2	24,900	39.3	193.4	23,800	125
130	24.5	166.7	25,100	31.4	179.6	23,600	35.7	186.9	22,500	130
135	18.5	154.0	23,800	26.9	170.6	22,400	31.7	179.4	21,300	135
140	9.4	133.9	22,500	21.5	159.5	21,200	27.3	170.5	20,200	140
145				14.3	144.0	20,200	22.0	159.6	19,200	145
150							15.0	144.7	18,300	150
155										155
160										160
165										165
170										170
175										175
180										180



ANSI B30.5

14000 S-1

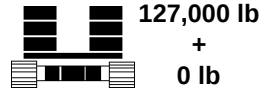
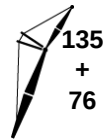


105.0 ft



130.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	61.7	223.3	31,700							95
100	59.2	220.4	29,600							100
105	56.6	217.3	27,700							105
110	53.9	213.8	26,100							110
115	51.1	210.0	24,500	55.8	213.4	22,400				115
120	48.2	205.7	23,100	53.1	209.9	21,100				120
125	45.2	201.0	21,800	50.3	205.9	19,900				125
130	42.0	195.7	20,700	47.4	201.6	18,900	52.2	205.0	17,100	130
135	38.6	189.8	19,600	44.3	196.7	17,800	49.4	200.9	16,100	135
140	34.9	183.1	18,600	41.1	191.3	16,900	46.4	196.4	15,300	140
145	30.8	175.4	17,600	37.6	185.2	16,000	43.3	191.4	14,500	145
150	26.2	166.2	16,700	33.8	178.3	15,200	40.0	185.7	13,700	150
155	20.6	154.6	15,900	29.6	170.2	14,500	36.4	179.4	13,000	155
160	13.0	138.1	15,100	24.8	160.5	13,700	32.5	172.1	12,400	160
165				18.9	148.0	13,100	28.2	163.6	11,700	165
170				10.1	128.7	12,400	23.1	153.1	11,100	170
175							16.6	139.3	10,600	175
180							4.5	112.4	10,000	180



105.0 ft



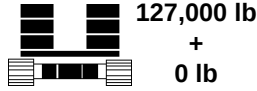
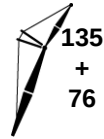
140.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50	74.1	247.4	46,700 *b							50
55	72.0	245.9	45,800 *							55
60	69.8	244.1	45,000 *							60
65	67.6	242.2	44,200 *	70.8	244.1	45,400 *				65
70	65.4	240.0	42,500 *	68.6	242.3	44,700 *				70
75	63.1	237.6	40,800 *	66.4	240.2	43,500 *				75
80	60.8	234.9	39,100 *	64.2	237.9	41,700 *	66.6	239.5	42,600	80
85	58.4	232.0	37,500 *	61.9	235.4	40,100 *	64.4	237.2	39,400	85
90	56.0	228.8	35,900 *	59.5	232.6	38,300	62.1	234.7	36,500	90
95	53.5	225.3	34,500 *	57.1	229.5	35,600	59.7	231.9	34,000	95
100	50.9	221.4	33,000 *	54.7	226.1	33,300	57.3	228.9	31,800	100
105	48.2	217.1	31,700 *	52.1	222.4	31,200	54.9	225.5	29,800	105
110	45.4	212.4	30,400 *	49.5	218.3	29,300	52.3	221.8	28,000	110
115	42.5	207.2	29,200 *	46.7	213.8	27,600	49.7	217.7	26,300	115
120	39.3	201.5	27,700	43.8	208.9	26,100	47.0	213.3	24,800	120
125	36.0	195.0	26,200	40.8	203.4	24,700	44.1	208.4	23,500	125
130	32.4	187.6	24,900	37.6	197.3	23,300	41.1	202.9	22,200	130
135	28.3	179.1	23,600	34.1	190.3	22,100	37.8	196.9	21,100	135
140	23.6	168.8	22,400	30.2	182.4	21,000	34.4	190.0	20,000	140
145	17.8	155.6	21,300	25.9	173.0	20,000	30.6	182.2	19,000	145
150	9.0	134.7	20,200	20.7	161.4	19,000	26.3	172.9	18,000	150
155				13.8	145.2	18,100	21.2	161.5	17,200	155
160							14.5	146.0	16,300	160
165										165
170										170
175										175
180										180
185										185
190										190

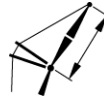


ANSI B30.5

14000 S-1

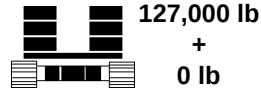
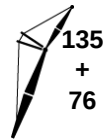


105.0 ft



140.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	61.6	231.9	29,300							100
105	59.2	229.1	27,400							105
110	56.8	226.0	25,700							110
115	54.3	222.5	24,200							115
120	51.8	218.8	22,800	56.2	222.1	20,800				120
125	49.1	214.6	21,500	53.6	218.6	19,600				125
130	46.3	210.1	20,300	51.1	214.8	18,500				130
135	43.4	205.1	19,300	48.4	210.5	17,500	52.8	213.7	15,800	135
140	40.4	199.5	18,300	45.6	205.9	16,600	50.2	209.8	14,900	140
145	37.1	193.3	17,300	42.6	200.7	15,700	47.5	205.4	14,100	145
150	33.6	186.2	16,500	39.5	195.0	14,900	44.7	200.6	13,400	150
155	29.7	178.1	15,600	36.2	188.6	14,100	41.7	195.2	12,700	155
160	25.2	168.5	14,900	32.6	181.2	13,400	38.5	189.3	12,000	160
165	19.9	156.4	14,200	28.5	172.8	12,800	35.1	182.6	11,400	165
170	12.5	139.2	13,500	23.9	162.6	12,100	31.3	175.0	10,800	170
175				18.2	149.6	11,500	27.1	166.0	10,300	175
180				9.7	129.6	10,900	22.2	155.1	9,700	180
185							16.0	140.7	9,200	185
190							4.4	112.8	8,700	190



105.0 ft



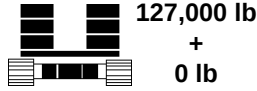
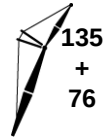
150.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55	73.2	256.3	42,900 *							55
60	71.2	254.7	42,000 *							60
65	69.2	252.9	40,900 *							65
70	67.1	250.9	39,300 *	70.1	253.0	41,700 *				70
75	65.1	248.7	37,600 *	68.1	251.1	40,100 *				75
80	62.9	246.3	36,100 *	66.0	249.0	38,500 *				80
85	60.8	243.6	34,500 *	63.9	246.6	36,900 *	66.2	248.2	38,500 *	85
90	58.6	240.7	33,000 *	61.8	244.1	35,300 *	64.1	245.9	36,400	90
95	56.3	237.5	31,600 *	59.6	241.2	33,800 *	61.9	243.4	33,900	95
100	54.0	234.0	30,300 *	57.3	238.2	32,400 *	59.8	240.6	31,700	100
105	51.6	230.2	28,900 *	55.0	234.8	31,000 *	57.5	237.5	29,700	105
110	49.1	226.0	27,600 *	52.7	231.2	29,200	55.2	234.2	27,900	110
115	46.5	221.5	26,500 *	50.2	227.2	27,500	52.9	230.6	26,200	115
120	43.8	216.5	25,300 *	47.7	222.8	26,000	50.4	226.6	24,700	120
125	41.0	211.1	24,200 *	45.0	218.1	24,600	47.9	222.3	23,400	125
130	38.0	205.0	23,100 *	42.3	212.8	23,300	45.3	217.6	22,100	130
135	34.7	198.2	22,200 *	39.4	207.0	22,100	42.5	212.4	21,000	135
140	31.2	190.5	21,300 *	36.2	200.6	20,900	39.6	206.6	19,900	140
145	27.3	181.6	20,400 *	32.9	193.3	19,900	36.5	200.2	18,900	145
150	22.8	170.9	19,600 *	29.2	185.0	18,900	33.2	193.1	18,000	150
155	17.2	157.2	19,000 *	25.0	175.2	18,000	29.5	184.8	17,100	155
160	8.7	135.5	18,300	20.0	163.2	17,200	25.4	175.2	16,300	160
165				13.3	146.4	16,400	20.4	163.4	15,500	165
170							14.0	147.2	14,800	170
175										175
180										180
185										185
190										190
195										195
200										200



ANSI B30.5

14000 S-1



105.0 ft

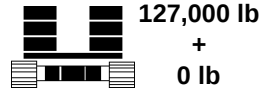
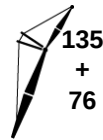


150.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	61.5	240.6	27,300							105
110	59.3	237.7	25,600							110
115	57.0	234.6	24,100							115
120	54.7	231.2	22,700							120
125	52.3	227.6	21,400	56.4	230.8	19,500				125
130	49.9	223.5	20,200	54.1	227.4	18,400				130
135	47.3	219.1	19,200	51.7	223.6	17,400				135
140	44.7	214.3	18,200	49.2	219.4	16,500				140
145	41.9	209.0	17,200	46.6	214.9	15,600	50.9	218.6	14,000	145
150	38.9	203.1	16,400	44.0	210.0	14,800	48.4	214.4	13,300	150
155	35.8	196.6	15,600	41.1	204.5	14,100	45.8	209.7	12,600	155
160	32.4	189.2	14,800	38.1	198.5	13,400	43.1	204.6	11,900	160
165	28.6	180.7	14,100	34.9	191.7	12,700	40.2	199.0	11,300	165
170	24.4	170.7	13,400	31.4	184.1	12,100	37.1	192.7	10,700	170
175	19.2	158.1	12,800	27.6	175.3	11,500	33.8	185.7	10,200	175
180	12.1	140.3	12,200	23.1	164.7	10,900	30.2	177.7	9,700	180
185				17.6	151.2	10,400	26.2	168.4	9,200	185
190				9.4	130.4	9,900	21.5	157.1	8,700	190
195							15.4	142.1	8,300	195
200							4.2	113.2	7,800	200

14000 S-1

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105.0 ft



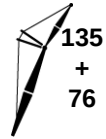
160.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55	74.3	266.7	39,900 *							55
60	72.4	265.3	39,100 *							60
65	70.6	263.6	37,500 *							65
70	68.6	261.7	35,900 *							70
75	66.7	259.7	34,300 *	69.5	261.8	36,600 *				75
80	64.7	257.4	32,800 *	67.6	259.8	35,100 *				80
85	62.7	254.9	31,300 *	65.6	257.7	33,500 *	67.8	259.1	35,100 *	85
90	60.7	252.3	29,900 *	63.7	255.3	32,100 *	65.8	256.9	33,600 *	90
95	58.6	249.3	28,500 *	61.7	252.7	30,700 *	63.8	254.6	32,200 *	95
100	56.5	246.2	27,200 *	59.6	249.9	29,200 *	61.8	252.0	30,800 *	100
105	54.3	242.7	25,900 *	57.5	246.9	27,900 *	59.8	249.2	29,400	105
110	52.1	239.0	24,700 *	55.3	243.5	26,600 *	57.7	246.2	27,600	110
115	49.8	234.9	23,500 *	53.1	239.9	25,300 *	55.5	242.9	25,900	115
120	47.4	230.5	22,300 *	50.9	236.0	24,100 *	53.3	239.3	24,400	120
125	44.9	225.7	21,300 *	48.5	231.8	23,000 *	51.1	235.4	23,100	125
130	42.3	220.5	20,300 *	46.1	227.2	21,900 *	48.7	231.2	21,800	130
135	39.6	214.7	19,300 *	43.5	222.1	20,800 *	46.3	226.6	20,700	135
140	36.7	208.4	18,300 *	40.9	216.6	19,800 *	43.8	221.6	19,600	140
145	33.6	201.3	17,500 *	38.1	210.6	18,900 *	41.1	216.2	18,600	145
150	30.2	193.2	16,700 *	35.1	203.8	18,000 *	38.3	210.2	17,700	150
155	26.4	184.0	15,900 *	31.8	196.2	17,100 *	35.3	203.5	16,800	155
160	22.1	172.9	15,100 *	28.2	187.6	16,300 *	32.1	196.0	16,000	160
165	16.7	158.6	14,600 *	24.2	177.4	15,600 *	28.5	187.4	15,300	165
170	8.5	136.2	13,800 *	19.3	164.9	14,900 *	24.5	177.4	14,600	170
175				12.9	147.6	14,200 *	19.8	165.1	13,900	175
180							13.5	148.4	13,200	180
185										185
190										190
195										195
200										200
205										205
210										210



ANSI B30.5

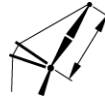
14000 S-1



127,000 lb
+
0 lb



105.0 ft

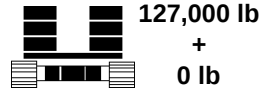
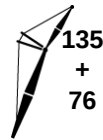


160.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	61.4	249.2	25,200							110
115	59.3	246.4	23,700							115
120	57.2	243.3	22,300							120
125	55.1	240.0	21,100							125
130	52.8	236.3	19,900	56.6	239.5	18,000				130
135	50.6	232.4	18,800	54.5	236.1	17,000				135
140	48.2	228.1	17,800	52.2	232.4	16,100				140
145	45.7	223.4	16,900	49.9	228.3	15,200				145
150	43.2	218.3	16,100	47.6	223.9	14,500	51.5	227.4	12,900	150
155	40.5	212.7	15,300	45.1	219.2	13,700	49.2	223.3	12,200	155
160	37.7	206.6	14,500	42.5	213.9	13,000	46.8	218.8	11,600	160
165	34.6	199.7	13,800	39.8	208.2	12,400	44.3	213.9	11,000	165
170	31.3	192.0	13,200	36.9	201.9	11,800	41.6	208.5	10,400	170
175	27.7	183.2	12,500	33.8	194.8	11,200	38.9	202.6	9,900	175
180	23.6	172.8	11,900	30.4	186.9	10,600	35.9	196.0	9,400	180
185	18.6	159.8	11,400	26.7	177.7	10,100	32.7	188.7	8,900	185
190	11.7	141.4	10,800	22.4	166.7	9,600	29.3	180.4	8,400	190
195				17.0	152.7	9,100	25.3	170.7	8,000	195
200				9.1	131.2	8,700	20.8	158.9	7,600	200
205							14.9	143.4	7,200	205
210							4.1	113.6	6,700	210

14000 S-1

ANSI B30.5



105.0 ft



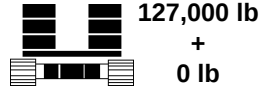
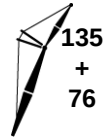
170.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
60	73.5	275.7	36,100 *							60
65	71.7	274.1	34,600 *							65
70	70.0	272.4	33,100 *							70
75	68.2	270.5	31,600 *	70.8	272.4	33,700 *				75
80	66.3	268.4	30,100 *	69.0	270.6	32,300 *				80
85	64.5	266.1	28,700 *	67.2	268.6	30,800 *				85
90	62.6	263.6	27,400 *	65.3	266.4	29,400 *	67.3	267.8	30,900 *	90
95	60.7	260.9	26,100 *	63.5	264.0	28,100 *	65.5	265.6	29,500 *	95
100	58.7	258.0	24,800 *	61.6	261.4	26,800 *	63.6	263.3	28,200 *	100
105	56.7	254.8	23,600 *	59.6	258.6	25,500 *	61.7	260.7	26,800 *	105
110	54.7	251.4	22,400 *	57.6	255.5	24,200 *	59.8	257.9	25,600 *	110
115	52.6	247.7	21,300 *	55.6	252.2	23,000 *	57.8	254.9	24,300 *	115
120	50.4	243.8	20,200 *	53.6	248.7	21,800 *	55.8	251.6	23,100 *	120
125	48.2	239.5	19,100 *	51.4	244.8	20,800 *	53.7	248.1	22,000 *	125
130	45.9	234.8	18,100 *	49.2	240.7	19,700 *	51.6	244.2	20,900 *	130
135	43.5	229.8	17,200 *	47.0	236.2	18,600 *	49.4	240.1	19,800 *	135
140	41.0	224.3	16,300 *	44.6	231.4	17,700 *	47.2	235.7	18,800 *	140
145	38.4	218.3	15,400 *	42.2	226.1	16,800 *	44.8	230.8	17,800 *	145
150	35.6	211.6	14,600 *	39.6	220.3	15,900 *	42.4	225.6	16,900 *	150
155	32.6	204.2	13,800 *	36.9	213.9	15,000 *	39.8	219.9	16,000 *	155
160	29.3	195.9	12,900 *	34.0	206.9	14,200 *	37.1	213.6	15,100 *	160
165	25.6	186.3	12,000 *	30.8	199.0	13,400 *	34.2	206.6	14,300 *	165
170	21.4	174.8	11,200 *	27.4	190.1	12,500 *	31.1	198.8	13,500 *	170
175	16.2	160.1	10,400 *	23.4	179.5	11,600 *	27.7	189.9	12,600 *	175
180	8.2	137.0	9,800 *	18.8	166.6	10,800 *	23.8	179.6	11,700 *	180
185				12.5	148.7	10,100 *	19.2	166.9	10,900 *	185
190							13.1	149.6	10,100 *	190
195										195
200										200
205										205
210										210
215										215
220										220

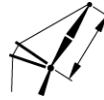


ANSI B30.5

14000 S-1



105.0 ft

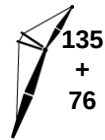


170.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115	61.3	257.9	23,500							115
120	59.4	255.1	22,100							120
125	57.4	252.0	20,800							125
130	55.3	248.7	19,700							130
135	53.3	245.1	18,600	56.8	248.2	16,800				135
140	51.1	241.2	17,600	54.8	244.8	15,800				140
145	48.9	237.0	16,700	52.7	241.1	15,000				145
150	46.7	232.5	15,800	50.6	237.2	14,200				150
155	44.3	227.6	15,000	48.3	232.9	13,500	52.0	236.2	11,900	155
160	41.8	222.2	14,300	46.1	228.3	12,800	49.9	232.1	11,300	160
165	39.2	216.4	13,600	43.7	223.2	12,100	47.6	227.8	10,700	165
170	36.5	209.9	12,900	41.2	217.8	11,500	45.3	223.0	10,100	170
175	33.6	202.8	12,300	38.5	211.8	10,900	42.9	217.8	9,600	175
180	30.4	194.8	11,700	35.7	205.2	10,400	40.3	212.2	9,100	180
185	26.9	185.6	11,200	32.7	197.8	9,900	37.7	206.0	8,600	185
190	22.9	174.8	10,600	29.5	189.6	9,400	34.8	199.2	8,200	190
195	18.0	161.4	10,100	25.9	180.0	8,900	31.7	191.6	7,800	195
200	11.4	142.4	9,600	21.7	168.7	8,500	28.4	182.9	7,400	200
205				16.5	154.2	8,100	24.6	172.9	7,000	205
210				8.8	132.0	7,600	20.2	160.7	6,600	210
215							14.5	144.7	6,200	215
220							4.0	113.9	5,800	220

14000 S-1

ANSI B30.5



127,000 lb
+
0 lb



114.8 ft



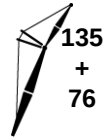
70.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32	73.6	189.7	104,200 *d							32
34	71.9	189.1	104,200 *c							34
36	70.2	188.4	104,200 *c							36
38	68.4	187.6	104,200 *c							38
40	66.6	186.8	104,200 *c							40
45	62.1	184.4	100,600 *b	69.3	187.1	96,100 c				45
50	57.4	181.5	88,300 b	64.8	185.0	83,600 c				50
55	52.4	178.0	78,100 b	60.2	182.4	73,900 b	65.7	184.5	70,800 c	55
60	47.0	173.7	69,800	55.4	179.3	66,100 b	61.1	181.9	63,300 b	60
65	41.1	168.6	63,000	50.2	175.5	59,700	56.3	178.9	57,100 b	65
70	34.4	162.1	57,400	44.7	170.9	54,300	51.2	175.2	52,000	70
75	26.3	153.6	52,500	38.5	165.3	49,700	45.7	170.8	47,600	75
80	14.6	140.2	48,300	31.4	158.1	45,800	39.7	165.4	43,800	80
85				22.3	148.2	42,300	32.8	158.6	40,600	85
90				4.6	127.3	39,100	24.2	149.4	37,600	90
95							10.4	133.3	35,000	95
100										100
105										105
110										110
115										115
120										120



ANSI B30.5

14000 S-1



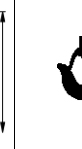
127,000 lb
+
0 lb



114.8 ft

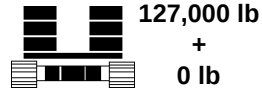
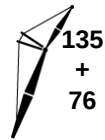


70.0 ft

	75°			70°			65°			
										
	ft	°	ft	lb	°	ft	lb	°	ft	lb
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	60.8	179.4	48,100 b							70
75	56.0	176.4	44,100 b							75
80	50.9	172.7	40,600							80
85	45.4	168.2	37,500	55.5	172.8	34,600 b				85
90	39.4	162.7	34,900	50.4	169.1	32,100				90
95	32.4	155.8	32,500	44.9	164.5	29,900				95
100	23.7	146.4	30,300	38.7	158.9	27,900	49.5	164.4	25,500	100
105	9.2	129.4	28,300	31.6	151.8	26,100	43.9	159.6	23,900	105
110				22.6	142.0	24,500	37.6	153.9	22,400	110
115				6.0	122.5	22,900	30.3	146.4	21,100	115
120							20.8	136.0	19,800	120

14000 S-1

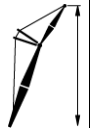
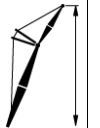
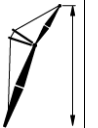
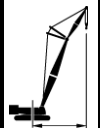
ANSI B30.5



114.8 ft



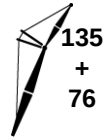
80.0 ft

	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34	74.2	199.5	95,500 *c							34
36	72.7	198.9	95,500 *c							36
38	71.2	198.3	95,400 *c							38
40	69.7	197.6	95,400 *c							40
45	65.8	195.5	92,900 *b							45
50	61.8	193.1	88,100 b	68.1	195.9	83,300 c				50
55	57.7	190.2	77,800 b	64.2	193.7	73,600 b				55
60	53.4	186.7	69,600	60.2	191.1	65,800 b	65.0	193.2	62,900 b	60
65	48.8	182.7	62,900	56.0	188.0	59,400	60.9	190.6	56,800 b	65
70	43.8	177.9	57,200	51.5	184.3	54,000	56.8	187.6	51,700	70
75	38.3	172.2	52,400	46.8	180.0	49,500	52.4	184.0	47,300	75
80	32.1	165.1	48,200	41.7	174.9	45,600	47.7	179.8	43,600	80
85	24.6	155.8	44,600	35.9	168.6	42,200	42.6	174.9	40,300	85
90	13.6	141.4	41,400	29.3	160.8	39,200	37.1	168.9	37,400	90
95				20.8	150.1	36,500	30.6	161.4	34,900	95
100				4.3	127.7	34,000	22.6	151.4	32,600	100
105							9.7	134.2	30,500	105
110										110
115										115
120										120
125										125
130										130



ANSI B30.5

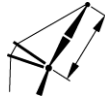
14000 S-1



127,000 lb
+
0 lb



114.8 ft

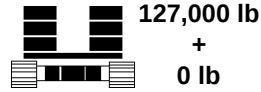
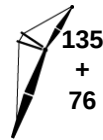


80.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	60.7	188.1	43,700 lb							75
80	56.5	185.1	40,200							80
85	52.1	181.5	37,200							85
90	47.4	177.2	34,500	56.1	181.5	31,700				90
95	42.4	172.2	32,200	51.7	177.9	29,500				95
100	36.7	166.2	30,100	46.9	173.6	27,600				100
105	30.2	158.6	28,200	41.8	168.5	25,800	50.9	173.2	23,500	105
110	22.1	148.4	26,400	36.1	162.3	24,200	46.1	168.8	22,000	110
115	8.6	130.2	24,800	29.5	154.5	22,800	40.9	163.5	20,700	115
120				21.1	144.0	21,400	35.1	157.1	19,500	120
125				5.6	123.0	20,100	28.3	149.0	18,400	125
130							19.5	137.7	17,300	130

14000 S-1

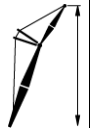
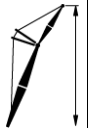
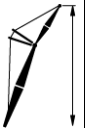
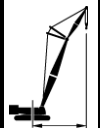
ANSI B30.5



114.8 ft



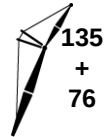
90.0 ft

	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36	74.7	209.4	86,100 *c							36
38	73.4	208.8	85,900 *c							38
40	72.0	208.1	85,100 *c							40
45	68.7	206.4	81,400 *b							45
50	65.2	204.2	77,800 *b	70.7	206.6	83,100 c				50
55	61.6	201.7	74,600 *b	67.3	204.7	73,400 b				55
60	58.0	198.8	69,500	63.8	202.4	65,600 b	67.9	204.1	62,700 b	60
65	54.1	195.5	62,700	60.2	199.7	59,200	64.4	201.9	56,600 b	65
70	50.1	191.6	57,100	56.4	196.7	53,900	60.8	199.3	51,500	70
75	45.8	187.1	52,300	52.5	193.1	49,300	57.1	196.3	47,100	75
80	41.2	181.8	48,200	48.4	189.0	45,400	53.3	192.8	43,400	80
85	36.1	175.5	44,600	44.0	184.2	42,100	49.2	188.8	40,100	85
90	30.2	167.9	41,400	39.2	178.5	39,100	44.8	184.1	37,300	90
95	23.2	157.9	38,600	33.8	171.8	36,400	40.1	178.6	34,800	95
100	12.9	142.6	36,100	27.6	163.4	34,100	34.9	172.1	32,500	100
105				19.6	151.9	31,900	28.8	164.1	30,500	105
110				4.1	128.0	29,900	21.3	153.4	28,600	110
115							9.2	135.0	26,900	115
120										120
125										125
130										130
135										135
140										140



ANSI B30.5

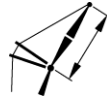
14000 S-1



127,000 lb
+
0 lb

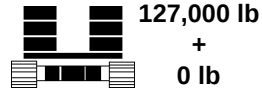
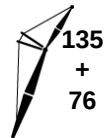


114.8 ft



90.0 ft

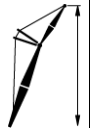
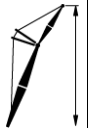
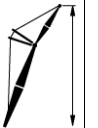
	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	60.7	196.8	40,000							80
85	56.9	193.7	37,000							85
90	53.0	190.2	34,300							90
95	48.9	186.2	32,000	56.5	190.2	29,300				95
100	44.6	181.5	29,900	52.6	186.6	27,300				100
105	39.8	176.0	28,000	48.5	182.5	25,600				105
110	34.6	169.4	26,300	44.1	177.8	24,100	52.0	182.0	21,800	110
115	28.5	161.2	24,800	39.3	172.2	22,600	47.8	177.8	20,500	115
120	20.8	150.3	23,400	34.0	165.4	21,300	43.4	172.9	19,300	120
125	8.1	130.9	22,000	27.8	157.1	20,100	38.5	167.1	18,200	125
130				19.9	145.8	19,000	33.1	160.2	17,200	130
135				5.3	123.4	17,900	26.7	151.5	16,200	135
140							18.3	139.4	15,300	140



114.8 ft



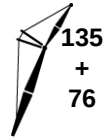
100.0 ft

	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40	73.9	218.6	78,500 *c							40
45	70.9	217.0	76,000 *b							45
50	67.8	215.1	72,600 *b							50
55	64.7	212.9	69,500 *b	69.7	215.4	73,100 b				55
60	61.5	210.4	66,500 *	66.6	213.4	65,300 b				60
65	58.2	207.5	62,500	63.4	211.1	58,900	67.1	212.8	56,200 b	65
70	54.7	204.2	56,800	60.1	208.4	53,600	64.0	210.6	51,100	70
75	51.1	200.4	52,100	56.8	205.4	49,000	60.8	207.9	46,800	75
80	47.4	196.1	47,900	53.3	201.9	45,200	57.4	204.9	43,100	80
85	43.3	191.1	44,400	49.6	197.9	41,800	54.0	201.5	39,800	85
90	39.0	185.4	41,200	45.8	193.3	38,800	50.3	197.6	37,000	90
95	34.2	178.7	38,500	41.6	188.1	36,200	46.5	193.2	34,500	95
100	28.7	170.5	36,000	37.1	182.0	33,800	42.4	188.1	32,200	100
105	22.0	159.9	33,700	32.0	174.7	31,700	38.0	182.2	30,200	105
110	12.2	143.6	31,700	26.1	165.7	29,800	33.0	175.2	28,400	110
115				18.6	153.6	28,100	27.3	166.6	26,700	115
120				3.8	128.4	26,400	20.2	155.2	25,200	120
125							8.7	135.8	23,800	125
130										130
135										135
140										140
145										145
150										150



ANSI B30.5

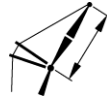
14000 S-1



127,000 lb
+
0 lb



114.8 ft

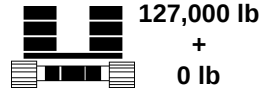
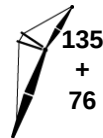


100.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	60.6	205.4	36,600							85
90	57.2	202.4	34,000							90
95	53.8	199.0	31,600							95
100	50.1	195.1	29,600	56.9	198.9	26,900				100
105	46.3	190.6	27,700	53.4	195.4	25,200				105
110	42.2	185.5	26,000	49.7	191.4	23,700				110
115	37.7	179.5	24,500	45.9	186.9	22,300	52.8	190.8	20,100	115
120	32.7	172.4	23,100	41.7	181.7	21,000	49.1	186.7	18,900	120
125	27.0	163.7	21,800	37.2	175.6	19,800	45.2	182.1	17,800	125
130	19.8	152.1	20,600	32.2	168.4	18,700	41.0	176.7	16,800	130
135	7.7	131.6	19,400	26.3	159.5	17,700	36.5	170.5	15,900	135
140				18.9	147.5	16,700	31.3	163.1	15,000	140
145				5.0	123.9	15,800	25.3	153.8	14,200	145
150							17.4	141.0	13,500	150

14000 S-1

ANSI B30.5



114.8 ft



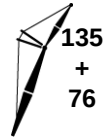
110.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	72.7	227.6	70,700 *b							45
50	69.9	225.9	68,100 *b							50
55	67.1	223.9	65,500 *b							55
60	64.3	221.6	63,100 *	68.8	224.2	65,200 b				60
65	61.3	219.1	60,900 *	66.0	222.2	58,800				65
70	58.3	216.2	56,800	63.1	219.8	53,500	66.5	221.6	51,000	70
75	55.2	212.9	52,000	60.1	217.1	49,000	63.6	219.2	46,700	75
80	52.0	209.2	47,900	57.1	214.0	45,100	60.7	216.6	43,000	80
85	48.6	205.1	44,300	53.9	210.6	41,700	57.7	213.6	39,800	85
90	45.0	200.4	41,200	50.6	206.7	38,800	54.5	210.2	36,900	90
95	41.2	195.0	38,500	47.2	202.4	36,200	51.3	206.5	34,400	95
100	37.1	188.9	36,000	43.5	197.4	33,800	47.8	202.2	32,200	100
105	32.5	181.7	33,800	39.6	191.8	31,700	44.2	197.4	30,200	105
110	27.3	173.0	31,800	35.3	185.2	29,800	40.3	191.9	28,400	110
115	20.9	161.8	29,900	30.5	177.5	28,100	36.1	185.5	26,800	115
120	11.6	144.7	28,200	24.9	168.0	26,600	31.4	178.1	25,300	120
125				17.7	155.2	25,100	26.0	168.9	23,900	125
130				3.7	128.7	23,700	19.3	156.9	22,600	130
135							8.3	136.6	21,400	135
140										140
145										145
150										150
155										155
160										160



ANSI B30.5

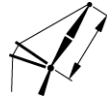
14000 S-1



127,000 lb
+
0 lb

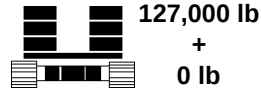
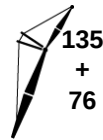


114.8 ft



110.0 ft

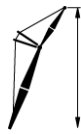
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	60.5	214.1	33,900							90
95	57.5	211.1	31,600							95
100	54.4	207.7	29,500							100
105	51.1	203.9	27,700	57.2	207.6	25,200				105
110	47.6	199.6	26,000	54.0	204.1	23,600				110
115	44.0	194.7	24,500	50.7	200.3	22,200				115
120	40.1	189.2	23,100	47.3	195.9	20,900				120
125	35.9	182.8	21,800	43.6	191.0	19,800	50.2	195.6	17,800	125
130	31.2	175.3	20,600	39.7	185.4	18,700	46.7	191.2	16,800	130
135	25.7	166.0	19,600	35.4	178.9	17,700	43.0	186.1	15,900	135
140	18.8	153.8	18,500	30.7	171.2	16,800	39.0	180.4	15,000	140
145	7.3	132.3	17,500	25.1	161.8	15,900	34.7	173.7	14,200	145
150				18.0	149.1	15,100	29.8	165.8	13,500	150
155				4.8	124.3	14,300	24.1	156.0	12,800	155
160							16.6	142.5	12,100	160



114.8 ft



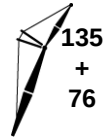
120.0 ft

	 87°			 83°			 80°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
45	74.2	238.0	53,400 *b							45
50	71.7	236.4	52,400 *b							50
55	69.1	234.7	51,300 *							55
60	66.6	232.6	50,300 *	70.6	234.9	52,200 *b				60
65	63.9	230.3	49,400 *	68.1	233.0	51,300 *				65
70	61.2	227.7	48,400 *	65.5	230.9	50,400 *				70
75	58.5	224.8	47,600 *	62.8	228.4	48,700	66.0	230.3	46,400	75
80	55.6	221.6	46,300 *	60.1	225.7	44,800	63.3	227.9	42,700	80
85	52.7	218.0	44,100	57.3	222.7	41,400	60.6	225.3	39,400	85
90	49.6	213.9	41,000	54.4	219.3	38,500	57.9	222.3	36,600	90
95	46.4	209.4	38,200	51.5	215.5	35,900	55.0	219.0	34,100	95
100	43.0	204.4	35,800	48.3	211.3	33,500	52.0	215.3	31,900	100
105	39.4	198.7	33,600	45.1	206.6	31,500	48.9	211.1	29,900	105
110	35.5	192.1	31,600	41.6	201.3	29,600	45.7	206.5	28,100	110
115	31.1	184.5	29,800	37.8	195.3	27,900	42.2	201.3	26,500	115
120	26.1	175.4	28,100	33.8	188.4	26,300	38.6	195.5	25,000	120
125	20.0	163.6	26,600	29.2	180.2	24,900	34.5	188.7	23,600	125
130	11.1	145.7	25,100	23.8	170.1	23,600	30.1	180.8	22,400	130
135				17.0	156.7	22,300	24.9	171.2	21,200	135
140				3.5	129.0	21,100	18.4	158.6	20,100	140
145							7.9	137.3	19,000	145
150										150
155										155
160										160
165										165
170										170



ANSI B30.5

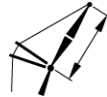
14000 S-1



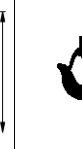
127,000 lb
+
0 lb

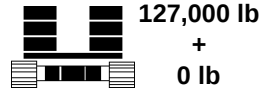
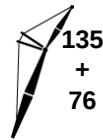


114.8 ft



120.0 ft

	75°			70°			65°			
										
	ft	o	ft	lb	ft	lb	ft	lb	ft	lb
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	60.5	222.7	31,200							95
100	57.7	219.8	29,200							100
105	54.8	216.4	27,300							105
110	51.9	212.7	25,600	57.4	216.2	23,200				110
115	48.8	208.6	24,100	54.5	212.9	21,800				115
120	45.5	203.9	22,800	51.6	209.1	20,600				120
125	42.0	198.7	21,500	48.4	204.9	19,400				125
130	38.3	192.8	20,300	45.2	200.2	18,300	51.1	204.4	16,400	130
135	34.3	186.0	19,300	41.7	194.9	17,400	47.9	200.2	15,500	135
140	29.8	178.0	18,300	38.0	188.9	16,400	44.6	195.4	14,700	140
145	24.6	168.3	17,300	33.9	182.0	15,600	41.1	190.0	13,900	145
150	18.0	155.4	16,500	29.3	173.9	14,800	37.3	183.9	13,200	150
155	7.0	132.9	15,600	24.0	163.9	14,000	33.2	176.8	12,500	155
160				17.2	150.7	13,300	28.5	168.4	11,800	160
165				4.6	124.7	12,600	23.0	158.1	11,200	165
170							15.9	143.9	10,600	170



114.8 ft



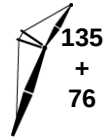
130.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50	73.1	246.9	49,300 *b							50
55	70.8	245.3	48,300 *							55
60	68.5	243.4	47,400 *							60
65	66.1	241.4	46,600 *	69.9	243.7	48,200 *				65
70	63.6	239.0	45,800 *	67.5	241.8	47,400 *				70
75	61.1	236.4	44,500 *	65.1	239.6	46,700 *	67.9	241.1	46,100	75
80	58.6	233.5	42,800 *	62.6	237.1	44,600	65.5	239.0	42,400	80
85	56.0	230.3	41,100 *	60.1	234.4	41,200	63.1	236.6	39,200	85
90	53.3	226.7	39,600 *	57.5	231.4	38,300	60.6	233.9	36,400	90
95	50.5	222.8	38,000	54.9	228.0	35,700	58.0	230.9	33,900	95
100	47.5	218.5	35,600	52.1	224.3	33,300	55.4	227.7	31,700	100
105	44.5	213.6	33,400	49.3	220.2	31,300	52.7	224.0	29,700	105
110	41.2	208.2	31,400	46.3	215.7	29,400	49.8	220.0	27,900	110
115	37.8	202.2	29,600	43.2	210.7	27,700	46.9	215.6	26,300	115
120	34.0	195.3	28,000	39.9	205.0	26,100	43.8	210.6	24,800	120
125	29.9	187.3	26,400	36.3	198.6	24,700	40.5	205.1	23,400	125
130	25.1	177.6	25,100	32.4	191.3	23,400	37.0	198.9	22,200	130
135	19.2	165.4	23,800	28.0	182.7	22,200	33.1	191.8	21,000	135
140	10.7	146.6	22,500	22.9	172.2	21,100	28.9	183.4	20,000	140
145				16.3	158.2	20,000	23.9	173.4	19,000	145
150				3.4	129.3	19,000	17.7	160.2	18,000	150
155							7.6	137.9	17,100	155
160										160
165										165
170										170
175										175
180										180



ANSI B30.5

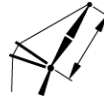
14000 S-1



127,000 lb
+
0 lb

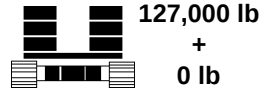
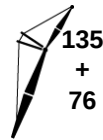


114.8 ft



130.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	63.0	234.1	31,000							95
100	60.5	231.4	28,900							100
105	57.9	228.4	27,100							105
110	55.2	225.1	25,400							110
115	52.5	221.5	23,900	57.6	224.9	21,600				115
120	49.7	217.4	22,500	55.0	221.6	20,300				120
125	46.7	213.0	21,300	52.2	217.9	19,200				125
130	43.6	208.0	20,100	49.4	213.8	18,100				130
135	40.3	202.4	19,100	46.4	209.3	17,100	51.8	213.2	15,200	135
140	36.8	196.2	18,100	43.3	204.3	16,200	48.9	209.1	14,400	140
145	32.9	189.0	17,200	40.0	198.6	15,400	45.9	204.5	13,600	145
150	28.6	180.6	16,300	36.4	192.3	14,600	42.8	199.4	12,900	150
155	23.6	170.4	15,500	32.5	185.0	13,900	39.4	193.6	12,200	155
160	17.3	157.0	14,700	28.2	176.5	13,200	35.8	187.1	11,600	160
165	6.7	133.5	14,000	23.1	166.0	12,500	31.8	179.7	11,000	165
170				16.6	152.1	11,900	27.4	170.9	10,500	170
175				4.4	125.1	11,200	22.1	160.1	9,900	175
180							15.2	145.2	9,400	180



114.8 ft



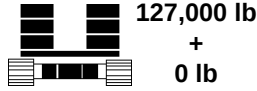
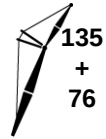
140.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50	74.4	257.4	46,200 *b							50
55	72.2	255.9	45,300 *							55
60	70.1	254.1	44,500 *							60
65	67.9	252.2	43,700 *							65
70	65.6	250.1	42,500 *	69.2	252.5	44,400 *				70
75	63.4	247.7	40,800 *	67.0	250.5	43,600 *				75
80	61.1	245.1	39,200 *	64.7	248.3	41,900 *	67.4	249.9	42,100	80
85	58.7	242.1	37,600 *	62.4	245.8	40,300 *	65.1	247.7	38,900	85
90	56.3	239.0	36,100 *	60.1	243.1	38,000	62.9	245.3	36,000	90
95	53.8	235.5	34,600 *	57.7	240.0	35,400	60.5	242.6	33,600	95
100	51.2	231.6	33,100 *	55.3	236.7	33,000	58.2	239.6	31,300	100
105	48.5	227.4	31,800 *	52.7	233.1	31,000	55.7	236.4	29,400	105
110	45.7	222.8	30,600 *	50.1	229.1	29,100	53.2	232.8	27,600	110
115	42.8	217.6	29,300 *	47.4	224.7	27,400	50.6	228.9	25,900	115
120	39.7	211.9	27,700	44.5	219.9	25,900	47.9	224.6	24,500	120
125	36.4	205.5	26,200	41.5	214.5	24,400	45.1	219.8	23,100	125
130	32.7	198.3	24,800	38.4	208.6	23,100	42.1	214.6	21,900	130
135	28.7	189.9	23,600	34.9	201.9	21,900	39.0	208.7	20,700	135
140	24.2	179.8	22,400	31.2	194.2	20,800	35.6	202.2	19,700	140
145	18.5	167.0	21,300	27.0	185.2	19,800	31.9	194.7	18,700	145
150	10.3	147.6	20,200	22.0	174.2	18,800	27.8	186.0	17,800	150
155				15.7	159.6	17,900	23.0	175.4	16,900	155
160				3.2	129.6	17,000	17.1	161.7	16,100	160
165							7.4	138.6	15,300	165
170										170
175										175
180										180
185										185
190										190

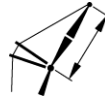


ANSI B30.5

14000 S-1



114.8 ft

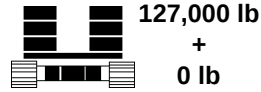
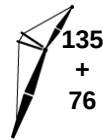


140.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	62.7	242.8	28,500							100
105	60.4	240.1	26,700							105
110	58.0	237.1	25,000							110
115	55.6	233.8	23,500							115
120	53.1	230.2	22,200	57.8	233.6	19,900				120
125	50.5	226.3	20,900	55.3	230.3	18,800				125
130	47.8	222.0	19,800	52.8	226.7	17,700				130
135	44.9	217.2	18,700	50.2	222.7	16,800				135
140	42.0	211.9	17,700	47.5	218.3	15,900	52.4	222.0	14,000	140
145	38.8	206.0	16,800	44.6	213.5	15,000	49.8	218.0	13,200	145
150	35.4	199.4	16,000	41.6	208.2	14,200	47.0	213.5	12,500	150
155	31.7	191.9	15,200	38.5	202.2	13,500	44.2	208.6	11,900	155
160	27.6	183.1	14,400	35.0	195.5	12,800	41.1	203.2	11,200	160
165	22.7	172.5	13,700	31.3	187.9	12,200	37.9	197.1	10,700	165
170	16.7	158.5	13,100	27.1	178.9	11,600	34.5	190.3	10,100	170
175	6.5	134.1	12,400	22.2	168.0	11,000	30.7	182.5	9,600	175
180				15.9	153.6	10,400	26.4	173.3	9,100	180
185				4.3	125.5	9,900	21.3	162.0	8,600	185
190							14.7	146.6	8,100	190

14000 S-1

ANSI B30.5



114.8 ft



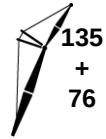
150.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55	73.4	266.3	42,400 *							55
60	71.4	264.7	41,700 *							60
65	69.4	263.0	40,800 *							65
70	67.4	261.0	39,300 *	70.6	263.2	41,400 *				70
75	65.3	258.8	37,600 *	68.6	261.3	40,200 *				75
80	63.2	256.4	36,100 *	66.5	259.3	38,700 *				80
85	61.0	253.7	34,500 *	64.4	257.0	37,100 *	66.9	258.6	38,700	85
90	58.8	250.8	33,100 *	62.3	254.5	35,600 *	64.8	256.4	35,900	90
95	56.5	247.6	31,600 *	60.1	251.7	34,100 *	62.7	253.9	33,400	95
100	54.2	244.2	30,300 *	57.9	248.7	32,700 *	60.5	251.2	31,200	100
105	51.8	240.4	29,000 *	55.6	245.4	30,900	58.3	248.3	29,200	105
110	49.3	236.3	27,700 *	53.2	241.9	29,000	56.0	245.1	27,500	110
115	46.8	231.8	26,600 *	50.8	237.9	27,300	53.7	241.5	25,800	115
120	44.1	226.9	25,400 *	48.3	233.7	25,800	51.3	237.7	24,400	120
125	41.3	221.5	24,300 *	45.7	229.0	24,400	48.8	233.5	23,000	125
130	38.3	215.5	23,300 *	43.0	223.9	23,100	46.2	228.9	21,800	130
135	35.1	208.7	22,300 *	40.1	218.3	21,900	43.5	223.9	20,600	135
140	31.6	201.2	21,400 *	37.0	212.0	20,800	40.6	218.4	19,600	140
145	27.8	192.4	20,500 *	33.7	204.9	19,700	37.6	212.2	18,600	145
150	23.3	181.9	19,700 *	30.1	196.9	18,800	34.3	205.3	17,700	150
155	17.9	168.6	19,100 *	26.0	187.5	17,900	30.8	197.5	16,800	155
160	9.9	148.4	18,300	21.3	176.1	17,000	26.8	188.4	16,000	160
165				15.2	160.9	16,200	22.2	177.4	15,300	165
170				3.1	129.9	15,400	16.5	163.2	14,600	170
175							7.1	139.2	13,800	175
180										180
185										185
190										190
195										195
200										200



ANSI B30.5

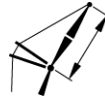
14000 S-1



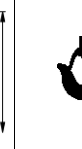
127,000 lb
+
0 lb



114.8 ft

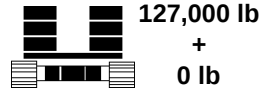
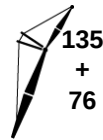


150.0 ft

	75°			70°			65°			
										
	ft	o	ft	lb	ft	lb	ft	lb	ft	lb
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	62.6	251.4	26,600							105
110	60.4	248.7	24,900							110
115	58.2	245.8	23,400							115
120	55.9	242.5	22,100							120
125	53.6	239.0	20,800	57.9	242.2	18,700				125
130	51.1	235.1	19,700	55.7	239.0	17,600				130
135	48.6	230.9	18,600	53.3	235.4	16,600				135
140	46.0	226.3	17,700	50.9	231.5	15,800				140
145	43.3	221.2	16,700	48.4	227.3	14,900	52.9	230.8	13,100	145
150	40.5	215.7	15,900	45.8	222.6	14,100	50.5	226.8	12,400	150
155	37.4	209.5	15,100	43.0	217.5	13,400	48.0	222.5	11,800	155
160	34.2	202.6	14,400	40.2	211.9	12,700	45.3	217.8	11,100	160
165	30.6	194.7	13,700	37.1	205.6	12,100	42.6	212.6	10,600	165
170	26.6	185.5	13,000	33.8	198.6	11,500	39.7	206.9	10,000	170
175	22.0	174.4	12,400	30.2	190.6	10,900	36.6	200.5	9,500	175
180	16.1	159.9	11,800	26.2	181.3	10,400	33.3	193.4	9,000	180
185	6.2	134.6	11,200	21.4	170.0	9,900	29.6	185.2	8,600	185
190				15.4	154.9	9,400	25.5	175.6	8,100	190
195				4.1	125.9	8,900	20.6	163.8	7,700	195
200							14.2	147.8	7,300	200

14000 S-1

ANSI B30.5



114.8 ft



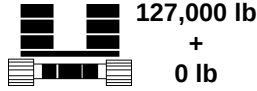
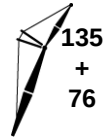
160.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55	74.5	276.7	39,500 *							55
60	72.6	275.2	38,700 *							60
65	70.8	273.6	37,400 *							65
70	68.8	271.7	35,800 *							70
75	66.9	269.7	34,300 *	70.0	272.0	36,800 *				75
80	64.9	267.5	32,800 *	68.1	270.1	35,300 *				80
85	63.0	265.0	31,300 *	66.1	268.0	33,800 *				85
90	60.9	262.4	30,000 *	64.1	265.7	32,300 *	66.5	267.4	33,900 *	90
95	58.9	259.5	28,600 *	62.1	263.1	30,900 *	64.5	265.1	32,500 *	95
100	56.7	256.3	27,300 *	60.1	260.4	29,600 *	62.5	262.6	30,900	100
105	54.6	252.9	26,000 *	58.0	257.4	28,200 *	60.5	259.9	28,900	105
110	52.3	249.2	24,800 *	55.9	254.1	26,900 *	58.4	257.0	27,100	110
115	50.0	245.2	23,600 *	53.7	250.6	25,600 *	56.3	253.7	25,500	115
120	47.7	240.8	22,500 *	51.4	246.8	24,400 *	54.1	250.3	24,100	120
125	45.2	236.1	21,400 *	49.1	242.6	23,300 *	51.8	246.5	22,700	125
130	42.6	230.9	20,400 *	46.7	238.1	22,100 *	49.5	242.4	21,500	130
135	39.9	225.2	19,400 *	44.2	233.2	21,100 *	47.1	237.9	20,300	135
140	37.0	218.9	18,400 *	41.5	227.8	20,100 *	44.6	233.1	19,300	140
145	33.9	211.9	17,600 *	38.8	221.8	19,100 *	42.0	227.8	18,300	145
150	30.6	203.9	16,800 *	35.8	215.3	18,200 *	39.3	222.0	17,400	150
155	26.9	194.8	16,000 *	32.6	207.9	17,400 *	36.4	215.5	16,600	155
160	22.6	183.9	15,300 *	29.1	199.6	16,500 *	33.2	208.3	15,800	160
165	17.3	170.2	14,700 *	25.2	189.8	15,800 *	29.8	200.2	15,000	165
170	9.6	149.3	13,900 *	20.6	178.0	15,100 *	26.0	190.7	14,300	170
175				14.7	162.2	14,400 *	21.5	179.4	13,600	175
180				3.0	130.2	13,700 *	15.9	164.6	13,000	180
185							6.9	139.9	12,400	185
190										190
195										195
200										200
205										205
210										210

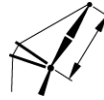


ANSI B30.5

14000 S-1

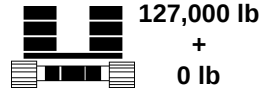
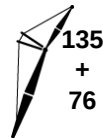


114.8 ft



160.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	62.4	260.1	24,600							110
115	60.4	257.4	23,100							115
120	58.3	254.4	21,700							120
125	56.2	251.2	20,500							125
130	54.0	247.7	19,300							130
135	51.7	243.9	18,300	55.9	247.7	16,300				135
140	49.4	239.8	17,300	53.7	244.1	15,400				140
145	47.0	235.3	16,400	51.5	240.3	14,600				145
150	44.5	230.5	15,600	49.2	236.2	13,800				150
155	41.9	225.1	14,800	46.8	231.7	13,100	51.1	235.7	11,400	155
160	39.1	219.3	14,100	44.2	226.8	12,400	48.8	231.4	10,800	160
165	36.2	212.8	13,400	41.6	221.4	11,800	46.4	226.9	10,200	165
170	33.1	205.6	12,700	38.8	215.5	11,200	43.8	221.9	9,700	170
175	29.6	197.4	12,100	35.9	208.9	10,600	41.2	216.4	9,100	175
180	25.8	187.8	11,500	32.7	201.6	10,100	38.4	210.4	8,700	180
185	21.3	176.3	11,000	29.2	193.3	9,600	35.4	203.8	8,200	185
190	15.6	161.3	10,500	25.3	183.6	9,100	32.2	196.3	7,800	190
195	6.0	135.2	9,900	20.8	171.8	8,600	28.6	187.8	7,400	195
200				14.9	156.3	8,200	24.6	177.8	7,000	200
205				4.0	126.2	7,700	19.9	165.6	6,600	205
210							13.7	149.1	6,200	210



114.8 ft



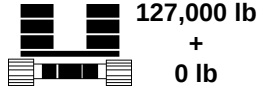
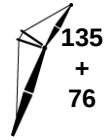
170.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
60	73.7	285.7	36,000 *							60
65	71.9	284.1	34,500 *							65
70	70.1	282.4	33,100 *							70
75	68.3	280.5	31,600 *							75
80	66.5	278.5	30,100 *	69.4	280.8	32,400 *				80
85	64.7	276.2	28,800 *	67.6	278.9	31,000 *				85
90	62.8	273.7	27,400 *	65.8	276.7	29,600 *	67.9	278.2	31,100 *	90
95	60.9	271.0	26,100 *	63.9	274.4	28,300 *	66.1	276.1	29,800 *	95
100	58.9	268.1	24,900 *	62.0	271.8	27,000 *	64.3	273.8	28,500 *	100
105	56.9	265.0	23,700 *	60.1	269.0	25,700 *	62.4	271.3	27,200 *	105
110	54.9	261.6	22,500 *	58.1	266.0	24,500 *	60.4	268.6	26,000 *	110
115	52.8	258.0	21,300 *	56.1	262.8	23,300 *	58.5	265.6	24,700 *	115
120	50.7	254.0	20,200 *	54.1	259.3	22,100 *	56.5	262.4	23,500 *	120
125	48.5	249.8	19,200 *	52.0	255.6	21,000 *	54.4	259.0	22,400 *	125
130	46.2	245.2	18,200 *	49.8	251.5	19,900 *	52.3	255.3	21,200 *	130
135	43.8	240.1	17,300 *	47.5	247.1	18,900 *	50.2	251.3	20,100 *	135
140	41.3	234.7	16,400 *	45.2	242.3	17,900 *	48.0	246.9	19,100 *	140
145	38.7	228.7	15,500 *	42.8	237.1	17,000 *	45.6	242.2	18,100 *	145
150	35.9	222.2	14,700 *	40.2	231.5	16,100 *	43.2	237.1	17,200 *	150
155	32.9	214.9	14,000 *	37.6	225.3	15,300 *	40.7	231.6	16,300 *	155
160	29.6	206.6	13,100 *	34.7	218.4	14,500 *	38.1	225.5	15,400 *	160
165	26.0	197.2	12,100 *	31.6	210.8	13,700 *	35.2	218.8	14,600 *	165
170	21.9	185.9	11,300 *	28.2	202.1	12,700 *	32.2	211.3	13,900 *	170
175	16.8	171.7	10,500 *	24.4	192.0	11,800 *	28.9	202.8	12,900 *	175
180	9.3	150.1	9,800 *	20.0	179.7	11,000 *	25.2	193.0	12,000 *	180
185				14.2	163.5	10,300 *	20.9	181.2	11,200 *	185
190				2.9	130.4	9,600 *	15.5	166.0	10,400 *	190
195							6.7	140.4	9,700 *	195
200										200
205										205
210										210
215										215



ANSI B30.5

14000 S-1



114.8 ft

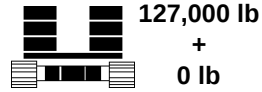
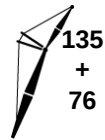


170.0 ft

	75°			70°			
ft	ft	ft	lb	ft	ft	lb	ft
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110							110
115	62.3	268.8	22,800				115
120	60.3	266.0	21,500				120
125	58.4	263.1	20,200				125
130	56.4	259.9	19,100				130
135	54.3	256.4	18,000				135
140	52.2	252.7	17,100	56.2	256.4	15,100	140
145	50.1	248.7	16,200	54.1	252.9	14,300	145
150	47.8	244.3	15,300	52.0	249.1	13,500	150
155	45.5	239.6	14,600	49.9	245.1	12,800	155
160	43.1	234.5	13,800	47.6	240.7	12,100	160
165	40.6	228.9	13,200	45.3	235.9	11,500	165
170	37.9	222.8	12,500	42.9	230.7	10,900	170
175	35.1	216.0	11,900	40.3	225.1	10,400	175
180	32.0	208.5	11,300	37.6	218.9	9,900	180
185	28.7	200.0	10,800	34.8	212.1	9,400	185
190	25.0	190.1	10,300	31.7	204.5	8,900	190
195	20.6	178.2	9,800	28.3	195.8	8,400	195
200	15.1	162.7	9,300	24.6	185.8	8,000	200
205	5.9	135.7	8,800	20.1	173.6	7,600	205
210				14.5	157.6	7,200	210
215				3.9	126.6	6,800	215

14000 S-1

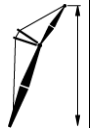
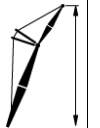
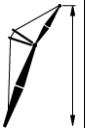
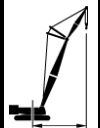
ANSI B30.5



124.7 ft



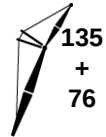
70.0 ft

	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32	74.1	199.7	101,200 *d							32
34	72.3	199.1	101,200 *c							34
36	70.6	198.4	101,200 *c							36
38	68.9	197.7	101,200 *c							38
40	67.1	196.9	101,200 *c							40
45	62.6	194.5	100,300 *b	70.3	197.4	95,400 c				45
50	57.9	191.6	88,200 b	65.9	195.4	83,000 c				50
55	52.9	188.2	77,900 b	61.3	192.9	73,300 b	67.2	194.9	69,900 c	55
60	47.6	184.0	69,700	56.6	189.9	65,600 b	62.7	192.6	62,500 b	60
65	41.7	179.0	62,900	51.5	186.2	59,200 b	58.0	189.7	56,400 b	65
70	35.2	172.7	57,300	46.1	181.9	53,900	53.0	186.3	51,300 b	70
75	27.3	164.4	52,400	40.1	176.5	49,400	47.7	182.1	47,000	75
80	16.2	151.9	48,200	33.2	169.8	45,400	41.9	177.1	43,300	80
85				24.7	160.7	42,000	35.3	170.8	40,000	85
90				11.6	145.5	38,900	27.4	162.6	37,200	90
95							16.4	150.2	34,600	95
100										100
105										105
110										110
115										115
120										120
125										125



ANSI B30.5

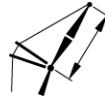
14000 S-1



127,000 lb
+
0 lb

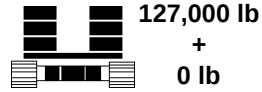
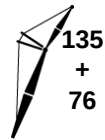


124.7 ft



70.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	58.5	187.5	43,100 b							75
80	53.6	184.1	39,700 b							80
85	48.3	180.1	36,700							85
90	42.6	175.2	34,100	53.9	180.9	31,000 b				90
95	36.1	169.1	31,800	48.6	176.9	28,900				95
100	28.4	161.1	29,700	42.9	172.1	27,000				100
105	18.0	149.5	27,800	36.5	166.0	25,300	48.6	172.6	22,800	105
110				29.0	158.3	23,700	42.9	167.7	21,400	110
115				18.8	147.0	22,300	36.5	161.7	20,100	115
120							28.9	153.9	18,900	120
125							18.8	142.6	17,800	125



124.7 ft



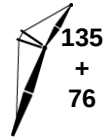
80.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
34	74.6	209.5	92,300 *d							34
36	73.1	208.9	92,200 *c							36
38	71.6	208.3	92,100 *c							38
40	70.1	207.6	92,100 *c							40
45	66.2	205.6	89,700 *b							45
50	62.3	203.2	85,900 *b	69.1	206.2	82,700 c				50
55	58.1	200.3	77,700 b	65.2	204.1	73,000 b				55
60	53.8	196.9	69,500	61.2	201.5	65,300 b	66.3	203.6	62,100 b	60
65	49.2	193.0	62,700	57.0	198.5	58,900 b	62.3	201.2	56,100 b	65
70	44.3	188.3	57,100	52.6	195.0	53,600	58.2	198.4	51,000 b	70
75	38.9	182.6	52,300	48.0	190.9	49,100	53.9	195.0	46,700	75
80	32.8	175.7	48,200	42.9	185.9	45,200	49.3	191.1	43,000	80
85	25.5	166.8	44,600	37.4	180.0	41,800	44.4	186.4	39,800	85
90	15.1	153.2	41,300	31.0	172.6	38,900	39.0	180.8	37,000	90
95				23.1	162.9	36,200	32.9	173.9	34,400	95
100				10.8	146.5	33,800	25.6	165.0	32,200	100
105							15.4	151.6	30,100	105
110										110
115										115
120										120
125										125
130										130
135										135



ANSI B30.5

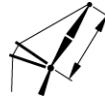
14000 S-1



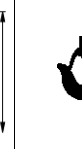
127,000 lb
+
0 lb

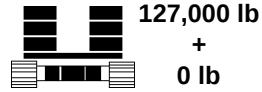
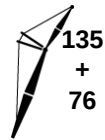


124.7 ft



80.0 ft

	75°			70°			65°			
										
	ft	°	ft	lb	ft	lb	ft	lb	ft	lb
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	62.8	199.0	42,700 b							75
80	58.7	196.2	39,300 b							80
85	54.4	192.9	36,400							85
90	49.9	189.0	33,800							90
95	45.0	184.4	31,500	54.7	189.6	28,500				95
100	39.7	178.9	29,400	50.2	185.8	26,600				100
105	33.7	172.2	27,500	45.3	181.3	24,900				105
110	26.6	163.6	25,800	40.0	175.8	23,400	50.1	181.4	21,000	110
115	16.9	151.0	24,300	34.1	169.2	22,000	45.3	176.9	19,700	115
120				27.1	160.7	20,700	40.0	171.5	18,500	120
125				17.6	148.6	19,500	34.1	164.8	17,500	125
130							27.0	156.4	16,500	130
135							17.6	144.1	15,500	135



124.7 ft



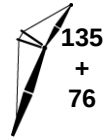
90.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
38	73.7	218.8	83,800 *c							38
40	72.4	218.1	83,600 *c							40
45	69.0	216.4	81,000 *b							45
50	65.6	214.3	77,500 *b							50
55	62.0	211.8	74,400 *b	68.1	214.9	72,800 b				55
60	58.3	209.0	69,300	64.6	212.8	65,100 b				60
65	54.5	205.7	62,600	61.0	210.2	58,700 b	65.6	212.4	55,800 b	65
70	50.5	201.8	57,000	57.3	207.2	53,400	62.1	209.9	50,800 b	70
75	46.3	197.4	52,200	53.5	203.8	48,900	58.4	207.0	46,500	75
80	41.7	192.2	48,100	49.4	199.8	45,100	54.6	203.7	42,800	80
85	36.6	186.1	44,500	45.1	195.2	41,700	50.6	199.9	39,600	85
90	30.9	178.6	41,400	40.4	189.7	38,800	46.3	195.5	36,800	90
95	24.0	168.9	38,600	35.2	183.3	36,100	41.8	190.3	34,300	95
100	14.2	154.5	36,000	29.2	175.3	33,800	36.7	184.2	32,100	100
105				21.8	164.9	31,700	31.0	176.7	30,100	105
110				10.2	147.4	29,700	24.1	167.2	28,200	110
115							14.5	152.9	26,600	115
120										120
125										125
130										130
135										135
140										140
145										145



ANSI B30.5

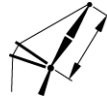
14000 S-1



127,000 lb
+
0 lb

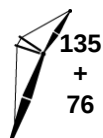


124.7 ft



90.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	62.5	207.6	39,100 lb							80
85	58.8	204.8	36,100							85
90	55.0	201.6	33,500							90
95	51.1	197.8	31,300							95
100	46.8	193.5	29,200	55.3	198.4	26,400				100
105	42.3	188.4	27,400	51.3	194.6	24,700				105
110	37.3	182.4	25,700	47.1	190.3	23,200				110
115	31.7	175.1	24,200	42.6	185.3	21,800	51.3	190.3	19,500	115
120	25.0	165.9	22,800	37.7	179.4	20,500	47.1	185.9	18,300	120
125	15.9	152.5	21,500	32.1	172.2	19,400	42.6	180.9	17,300	125
130				25.5	163.1	18,300	37.6	175.0	16,300	130
135				16.6	150.1	17,300	32.1	167.8	15,400	135
140							25.4	158.7	14,500	140
145							16.5	145.6	13,700	145



127,000 lb
+
0 lb



124.7 ft



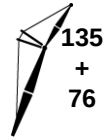
100.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
40	74.2	228.6	76,600 *c							40
45	71.2	227.0	75,700 *b							45
50	68.1	225.2	72,400 *b							50
55	65.0	223.0	69,300 *b	70.4	225.6	72,500 b				55
60	61.8	220.5	66,400 *	67.3	223.7	64,800 b				60
65	58.5	217.6	62,400	64.2	221.5	58,400 b				65
70	55.1	214.4	56,700	60.9	218.9	53,100	65.1	221.1	50,400 b	70
75	51.5	210.6	52,000	57.6	215.9	48,600	61.9	218.6	46,200	75
80	47.8	206.4	47,900	54.1	212.5	44,800	58.6	215.7	42,500	80
85	43.8	201.5	44,300	50.5	208.6	41,400	55.2	212.4	39,300	85
90	39.4	195.9	41,200	46.7	204.2	38,500	51.6	208.7	36,500	90
95	34.7	189.3	38,400	42.6	199.2	35,900	47.8	204.5	34,000	95
100	29.3	181.3	35,900	38.2	193.3	33,600	43.8	199.6	31,800	100
105	22.7	171.0	33,700	33.3	186.4	31,500	39.5	194.0	29,800	105
110	13.5	155.7	31,600	27.7	177.9	29,600	34.8	187.4	28,000	110
115				20.6	166.7	27,800	29.4	179.4	26,400	115
120				9.7	148.3	26,200	22.9	169.2	24,900	120
125							13.7	154.1	23,400	125
130										130
135										135
140										140
145										145
150										150
155										155



ANSI B30.5

14000 S-1



127,000 lb
+
0 lb



124.7 ft

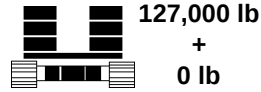
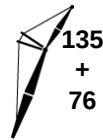


100.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	62.2	216.3	35,700							85
90	59.0	213.5	33,200							90
95	55.6	210.3	30,900							95
100	52.0	206.6	28,800							100
105	48.3	202.4	27,000	55.8	207.1	24,300				105
110	44.3	197.7	25,400	52.2	203.4	22,800				110
115	40.0	192.2	23,900	48.5	199.3	21,400				115
120	35.4	185.7	22,500	44.6	194.5	20,200	52.2	199.1	17,900	120
125	30.0	177.9	21,300	40.3	189.1	19,000	48.5	194.9	16,900	125
130	23.7	168.0	20,100	35.7	182.7	18,000	44.5	190.2	15,900	130
135	15.1	153.8	19,000	30.4	175.0	17,000	40.3	184.7	15,000	135
140				24.1	165.3	16,100	35.6	178.3	14,200	140
145				15.7	151.5	15,200	30.4	170.6	13,400	145
150							24.1	160.9	12,700	150
155							15.7	147.1	12,000	155

14000 S-1

ANSI B30.5



124.7 ft



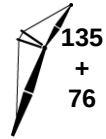
110.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	73.0	237.5	70,100 *b							45
50	70.2	235.9	67,500 *b							50
55	67.4	233.9	65,200 *b							55
60	64.6	231.7	62,800 *	69.5	234.5	64,700 b				60
65	61.7	229.2	60,700 *	66.7	232.4	58,300				65
70	58.6	226.3	56,700	63.8	230.1	53,000	67.5	232.0	50,300 b	70
75	55.5	223.1	51,900	60.9	227.5	48,600	64.6	229.8	46,100	75
80	52.3	219.4	47,800	57.8	224.6	44,700	61.7	227.2	42,400	80
85	49.0	215.3	44,300	54.7	221.2	41,400	58.7	224.4	39,200	85
90	45.4	210.7	41,100	51.4	217.5	38,400	55.6	221.1	36,400	90
95	41.6	205.4	38,400	48.0	213.2	35,800	52.4	217.5	34,000	95
100	37.5	199.4	35,900	44.4	208.4	33,500	49.0	213.4	31,700	100
105	33.0	192.3	33,700	40.6	203.0	31,500	45.5	208.8	29,800	105
110	27.9	183.8	31,700	36.4	196.7	29,600	41.7	203.5	28,000	110
115	21.7	173.0	29,900	31.7	189.3	27,900	37.6	197.5	26,400	115
120	12.9	156.9	28,200	26.3	180.3	26,300	33.1	190.5	24,900	120
125				19.7	168.5	24,900	28.0	182.0	23,500	125
130				9.2	149.1	23,500	21.8	171.2	22,300	130
135							13.1	155.3	21,100	135
140										140
145										145
150										150
155										155
160										160
165										165



ANSI B30.5

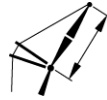
14000 S-1



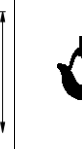
127,000 lb
+
0 lb

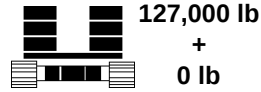
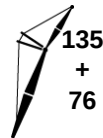


124.7 ft



110.0 ft

	75°			70°			65°			
										
	ft	o	ft	lb	ft	lb	ft	lb	ft	lb
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	62.0	225.0	33,100							90
95	59.1	222.2	30,800							95
100	56.0	219.0	28,800							100
105	52.8	215.4	27,000							105
110	49.4	211.4	25,300	56.2	215.7	22,700				110
115	45.9	206.8	23,900	53.0	212.2	21,400				115
120	42.1	201.6	22,500	49.6	208.2	20,100				120
125	38.1	195.7	21,300	46.1	203.6	19,000	53.0	207.8	16,800	125
130	33.7	188.8	20,100	42.4	198.5	18,000	49.6	203.8	15,900	130
135	28.6	180.5	19,100	38.4	192.6	17,000	46.1	199.3	15,000	135
140	22.6	170.1	18,100	33.9	185.8	16,100	42.4	194.1	14,200	140
145	14.4	155.1	17,100	29.0	177.6	15,300	38.3	188.3	13,400	145
150				23.0	167.4	14,500	33.9	181.4	12,700	150
155				15.0	152.9	13,700	28.9	173.2	12,100	155
160							23.0	163.0	11,400	160
165							15.0	148.4	10,800	165



124.7 ft



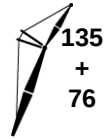
120.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	74.4	248.0	52,700 *b							45
50	71.9	246.4	51,700 *b							50
55	69.4	244.7	50,700 *b							55
60	66.8	242.7	49,800 *							60
65	64.2	240.4	48,800 *	68.7	243.3	50,800 *				65
70	61.5	237.8	48,000 *	66.1	241.2	50,000 *				70
75	58.8	235.0	47,100 *	63.5	238.8	48,300	66.9	240.7	45,700	75
80	55.9	231.8	46,300 *	60.8	236.2	44,400	64.2	238.4	42,100	80
85	53.0	228.2	44,000	58.0	233.2	41,100	61.6	235.9	38,900	85
90	49.9	224.2	40,900	55.1	229.9	38,100	58.8	233.0	36,100	90
95	46.7	219.8	38,100	52.2	226.2	35,600	56.0	229.8	33,600	95
100	43.4	214.8	35,700	49.1	222.1	33,300	53.0	226.3	31,400	100
105	39.8	209.1	33,500	45.9	217.6	31,200	50.0	222.3	29,500	105
110	35.9	202.7	31,500	42.4	212.4	29,300	46.8	217.9	27,700	110
115	31.6	195.2	29,700	38.8	206.6	27,600	43.4	212.9	26,100	115
120	26.7	186.2	28,000	34.8	199.9	26,100	39.8	207.2	24,600	120
125	20.7	174.8	26,500	30.3	192.1	24,700	36.0	200.8	23,300	125
130	12.3	158.0	25,100	25.2	182.6	23,400	31.7	193.4	22,000	130
135				18.8	170.2	22,100	26.8	184.4	20,900	135
140				8.8	149.9	21,000	20.9	173.1	19,800	140
145							12.5	156.4	18,800	145
150										150
155										155
160										160
165										165
170										170
175										175



ANSI B30.5

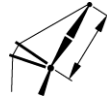
14000 S-1



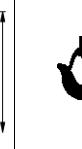
127,000 lb
+
0 lb

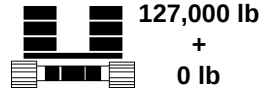
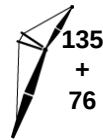


124.7 ft



120.0 ft

	75°			70°			65°			
										
	ft	o	ft	lb	o	ft	lb	o	ft	lb
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	61.9	233.7	30,400							95
100	59.1	230.8	28,400							100
105	56.3	227.7	26,600							105
110	53.4	224.1	25,000							110
115	50.4	220.2	23,500	56.5	224.4	21,000				115
120	47.2	215.9	22,200	53.6	220.9	19,800				120
125	43.8	210.9	20,900	50.6	217.0	18,600				125
130	40.3	205.4	19,800	47.4	212.7	17,600				130
135	36.4	199.1	18,700	44.1	207.8	16,600	50.5	212.7	14,600	135
140	32.2	191.7	17,800	40.5	202.3	15,800	47.4	208.3	13,800	140
145	27.4	183.0	16,900	36.7	196.0	14,900	44.0	203.4	13,000	145
150	21.6	172.0	16,000	32.5	188.8	14,200	40.5	197.9	12,400	150
155	13.7	156.4	15,200	27.7	180.1	13,400	36.7	191.7	11,700	155
160				22.0	169.4	12,800	32.4	184.4	11,100	160
165				14.4	154.1	12,100	27.7	175.7	10,500	165
170							22.0	164.9	10,000	170
175							14.3	149.7	9,400	175



124.7 ft



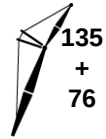
130.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50	73.4	256.9	48,700 *b							50
55	71.0	255.3	47,800 *b							55
60	68.7	253.5	46,900 *							60
65	66.3	251.4	46,100 *	70.4	253.9	47,700 *				65
70	63.9	249.1	45,300 *	68.1	252.0	47,000 *				70
75	61.4	246.5	44,400 *	65.7	249.9	46,300 *				75
80	58.9	243.6	42,800 *	63.2	247.5	44,200	66.4	249.5	41,800	80
85	56.2	240.4	41,200 *	60.7	244.9	40,800	63.9	247.1	38,600	85
90	53.6	236.9	39,600 *	58.2	241.9	37,900	61.4	244.6	35,800	90
95	50.8	233.1	38,000	55.5	238.6	35,300	58.9	241.7	33,400	95
100	47.9	228.8	35,500	52.8	235.0	33,000	56.3	238.5	31,200	100
105	44.8	224.0	33,300	50.0	231.0	31,000	53.6	235.0	29,200	105
110	41.6	218.7	31,300	47.1	226.6	29,100	50.8	231.1	27,500	110
115	38.2	212.7	29,500	44.0	221.7	27,400	47.9	226.8	25,900	115
120	34.4	205.9	27,900	40.7	216.2	25,900	44.9	222.1	24,400	120
125	30.3	198.0	26,400	37.2	210.0	24,500	41.7	216.8	23,100	125
130	25.6	188.6	25,000	33.4	202.9	23,200	38.2	210.8	21,800	130
135	19.9	176.6	23,700	29.1	194.7	22,000	34.5	204.0	20,700	135
140	11.8	159.1	22,500	24.2	184.7	20,900	30.4	196.1	19,600	140
145				18.1	171.8	19,800	25.7	186.7	18,600	145
150				8.5	150.6	18,800	20.0	174.9	17,700	150
155							12.0	157.5	16,800	155
160										160
165										165
170										170
175										175
180										180
185										185



ANSI B30.5

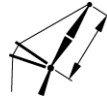
14000 S-1



127,000 lb
+
0 lb

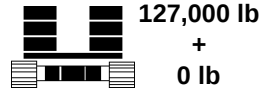
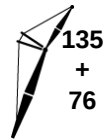


124.7 ft



130.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	61.7	242.3	28,200							100
105	59.2	239.5	26,400							105
110	56.6	236.4	24,700							110
115	53.9	232.9	23,300							115
120	51.1	229.1	21,900	56.8	233.1	19,500				120
125	48.3	224.8	20,700	54.1	229.7	18,400				125
130	45.2	220.1	19,600	51.3	225.9	17,300				130
135	42.0	214.9	18,500	48.4	221.6	16,400				135
140	38.6	209.0	17,600	45.4	217.0	15,500	51.3	221.5	13,500	140
145	34.9	202.3	16,700	42.2	211.7	14,700	48.4	217.3	12,800	145
150	30.9	194.6	15,800	38.8	205.9	13,900	45.4	212.6	12,100	150
155	26.3	185.4	15,000	35.2	199.3	13,200	42.2	207.4	11,500	155
160	20.8	173.9	14,300	31.2	191.6	12,600	38.8	201.5	10,900	160
165	13.2	157.5	13,600	26.6	182.6	11,900	35.2	194.9	10,300	165
170				21.1	171.3	11,300	31.1	187.2	9,700	170
175				13.8	155.4	10,700	26.6	178.2	9,200	175
180							21.1	166.9	8,700	180
185							13.7	150.9	8,300	185



124.7 ft



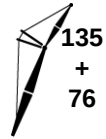
140.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50	74.6	267.3	45,600 *b							50
55	72.4	265.9	44,800 *b							55
60	70.3	264.2	44,000 *							60
65	68.1	262.3	43,200 *							65
70	65.9	260.1	42,400 *	69.7	262.7	43,900 *				70
75	63.6	257.8	40,800 *	67.5	260.8	43,300 *				75
80	61.3	255.2	39,200 *	65.3	258.6	42,100 *				80
85	58.9	252.3	37,600 *	63.0	256.2	40,500 *	65.9	258.2	38,300	85
90	56.5	249.1	36,100 *	60.7	253.5	37,600	63.7	255.8	35,500	90
95	54.0	245.7	34,700 *	58.3	250.6	35,000	61.3	253.2	33,100	95
100	51.5	241.9	33,200 *	55.9	247.3	32,700	59.0	250.4	30,900	100
105	48.8	237.7	32,000 *	53.3	243.8	30,700	56.6	247.2	28,900	105
110	46.0	233.1	30,700 *	50.8	239.9	28,800	54.1	243.7	27,100	110
115	43.1	228.0	29,300	48.1	235.6	27,100	51.5	239.9	25,500	115
120	40.0	222.4	27,700	45.2	230.9	25,600	48.8	235.8	24,100	120
125	36.7	216.1	26,200	42.3	225.6	24,200	46.1	231.2	22,800	125
130	33.1	208.9	24,800	39.1	219.8	22,900	43.2	226.1	21,500	130
135	29.2	200.6	23,500	35.8	213.3	21,700	40.1	220.5	20,400	135
140	24.7	190.8	22,300	32.1	205.9	20,600	36.8	214.2	19,300	140
145	19.2	178.4	21,200	28.0	197.2	19,600	33.2	207.0	18,400	145
150	11.4	160.1	20,200	23.3	186.8	18,600	29.3	198.8	17,500	150
155				17.4	173.4	17,700	24.8	189.0	16,600	155
160				8.2	151.4	16,800	19.3	176.6	15,800	160
165							11.6	158.5	15,000	165
170										170
175										175
180										180
185										185
190										190
195										195



ANSI B30.5

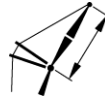
14000 S-1



127,000 lb
+
0 lb

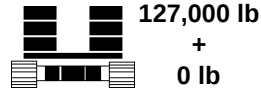
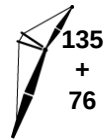


124.7 ft



140.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	61.6	251.0	26,000							105
110	59.3	248.1	24,400							110
115	56.8	245.0	22,900							115
120	54.4	241.6	21,600							120
125	51.8	237.9	20,300	57.0	241.8	18,000				125
130	49.2	233.7	19,200	54.5	238.4	17,000				130
135	46.4	229.2	18,200	52.0	234.6	16,000				135
140	43.5	224.2	17,200	49.3	230.6	15,100				140
145	40.4	218.6	16,300	46.6	226.0	14,300	52.0	230.3	12,400	145
150	37.2	212.4	15,500	43.7	221.1	13,600	49.3	226.2	11,700	150
155	33.6	205.4	14,700	40.6	215.5	12,900	46.6	221.7	11,100	155
160	29.7	197.3	14,000	37.4	209.4	12,200	43.7	216.7	10,500	160
165	25.3	187.7	13,300	33.9	202.4	11,600	40.6	211.2	9,900	165
170	20.0	175.7	12,700	30.0	194.4	11,000	37.4	205.0	9,400	170
175	12.7	158.7	12,000	25.6	184.9	10,500	33.8	198.0	8,900	175
180				20.4	173.1	9,900	30.0	190.0	8,400	180
185				13.3	156.6	9,400	25.6	180.5	8,000	185
190							20.3	168.7	7,500	190
195							13.2	152.1	7,100	195



124.7 ft



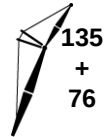
150.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55	73.6	276.3	41,900 *b							55
60	71.6	274.7	41,200 *							60
65	69.6	273.0	40,500 *							65
70	67.6	271.0	39,100 *							70
75	65.5	268.9	37,600 *	69.1	271.6	40,300 *				75
80	63.4	266.5	36,100 *	67.0	269.5	38,800 *				80
85	61.2	263.8	34,600 *	64.9	267.3	37,300 *	67.6	269.1	38,200	85
90	59.0	261.0	33,200 *	62.8	264.9	35,800 *	65.5	266.9	35,400	90
95	56.8	257.8	31,700 *	60.6	262.2	34,400 *	63.4	264.5	32,900	95
100	54.4	254.4	30,400 *	58.4	259.2	32,600	61.3	261.9	30,700	100
105	52.1	250.7	29,100 *	56.1	256.0	30,600	59.1	259.0	28,800	105
110	49.6	246.6	27,900 *	53.8	252.5	28,700	56.8	255.9	27,000	110
115	47.0	242.1	26,700 *	51.4	248.7	27,000	54.5	252.5	25,400	115
120	44.4	237.2	25,500 *	48.9	244.5	25,500	52.1	248.7	24,000	120
125	41.6	231.9	24,500 *	46.3	239.9	24,100	49.6	244.7	22,700	125
130	38.6	225.9	23,400 *	43.6	234.9	22,800	47.1	240.2	21,400	130
135	35.4	219.3	22,400 *	40.8	229.4	21,600	44.4	235.4	20,300	135
140	32.0	211.8	21,500 *	37.8	223.3	20,600	41.6	230.0	19,300	140
145	28.2	203.2	20,700 *	34.5	216.5	19,500	38.7	224.1	18,300	145
150	23.8	192.9	19,800 *	31.0	208.7	18,600	35.5	217.4	17,400	150
155	18.5	180.0	19,100 *	27.1	199.7	17,700	32.1	210.0	16,600	155
160	11.0	161.1	18,300	22.5	188.9	16,900	28.2	201.4	15,800	160
165				16.8	174.9	16,100	23.9	191.1	15,000	165
170				7.9	152.1	15,300	18.6	178.3	14,300	170
175							11.2	159.5	13,600	175
180										180
185										185
190										190
195										195



ANSI B30.5

14000 S-1



127,000 lb
+
0 lb



124.7 ft

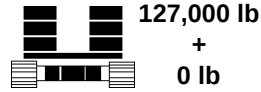
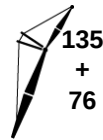


150.0 ft

	75°			70°			
ft	ft	ft	lb	ft	ft	lb	ft
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110	61.5	259.6	24,200				110
115	59.3	256.8	22,800				115
120	57.1	253.7	21,500				120
125	54.8	250.3	20,200				125
130	52.4	246.6	19,100	57.2	250.5	16,800	130
135	49.9	242.6	18,100	54.9	247.1	15,900	135
140	47.4	238.2	17,100	52.5	243.4	15,000	140
145	44.7	233.4	16,200	50.1	239.4	14,200	145
150	41.9	228.1	15,400	47.5	235.0	13,500	150
155	39.0	222.2	14,700	44.9	230.2	12,800	155
160	35.9	215.7	13,900	42.1	225.0	12,100	160
165	32.5	208.3	13,300	39.2	219.2	11,500	165
170	28.7	199.9	12,600	36.1	212.7	10,900	170
175	24.4	189.9	12,000	32.7	205.4	10,400	175
180	19.3	177.4	11,400	29.0	197.0	9,900	180
185	12.3	159.8	10,900	24.7	187.1	9,400	185
190				19.7	174.9	8,900	190
195				12.8	157.7	8,400	195

14000 S-1

ANSI B30.5



124.7 ft



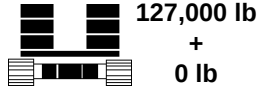
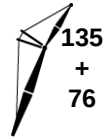
160.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55	74.7	286.7	39,000 *b							55
60	72.8	285.2	38,300 *							60
65	70.9	283.6	37,300 *							65
70	69.0	281.8	35,700 *							70
75	67.1	279.8	34,300 *	70.4	282.2	36,800 *				75
80	65.2	277.6	32,800 *	68.5	280.3	35,400 *				80
85	63.2	275.1	31,400 *	66.6	278.3	34,000 *				85
90	61.1	272.5	30,000 *	64.6	276.0	32,500 *	67.1	277.8	34,200 *	90
95	59.1	269.6	28,700 *	62.6	273.5	31,100 *	65.2	275.6	32,600	95
100	57.0	266.5	27,400 *	60.6	270.8	29,800 *	63.2	273.2	30,400	100
105	54.8	263.1	26,100 *	58.5	267.9	28,400 *	61.2	270.5	28,500	105
110	52.6	259.4	24,900 *	56.4	264.7	27,100 *	59.1	267.7	26,700	110
115	50.3	255.4	23,700 *	54.2	261.2	25,900 *	57.0	264.6	25,100	115
120	47.9	251.1	22,600 *	52.0	257.5	24,700 *	54.8	261.2	23,700	120
125	45.5	246.4	21,500 *	49.7	253.4	23,500 *	52.6	257.5	22,300	125
130	42.9	241.3	20,500 *	47.3	249.0	22,400 *	50.3	253.5	21,100	130
135	40.2	235.6	19,500 *	44.8	244.1	21,400	48.0	249.2	20,000	135
140	37.3	229.4	18,600 *	42.2	238.9	20,300	45.5	244.5	19,000	140
145	34.3	222.4	17,700 *	39.4	233.1	19,300	42.9	239.4	18,000	145
150	30.9	214.6	16,900 *	36.5	226.7	18,300	40.2	233.7	17,100	150
155	27.3	205.6	16,100 *	33.4	219.5	17,400	37.4	227.5	16,300	155
160	23.0	195.0	15,400 *	30.0	211.4	16,600	34.3	220.6	15,500	160
165	17.9	181.6	14,700 *	26.2	202.1	15,800	31.0	212.8	14,700	165
170	10.7	162.0	14,000 *	21.8	190.8	15,100	27.3	203.8	14,000	170
175				16.3	176.3	14,400	23.1	193.2	13,400	175
180				7.7	152.7	13,700	18.0	179.9	12,800	180
185							10.9	160.5	12,100	185
190										190
195										195
200										200
205										205

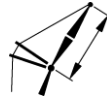


ANSI B30.5

14000 S-1



124.7 ft

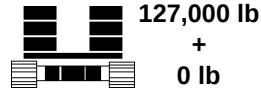
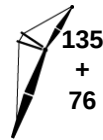


160.0 ft

	75°			70°			
ft	ft	ft	lb	ft	ft	lb	ft
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110							110
115	61.4	268.3	22,400				115
120	59.4	265.5	21,100				120
125	57.2	262.4	19,900				125
130	55.1	259.0	18,800				130
135	52.9	255.4	17,700	57.4	259.1	15,500	135
140	50.6	251.5	16,800	55.2	255.8	14,700	140
145	48.2	247.2	15,900	53.0	252.2	13,900	145
150	45.8	242.5	15,100	50.7	248.3	13,100	150
155	43.2	237.4	14,300	48.4	244.0	12,400	155
160	40.6	231.9	13,600	45.9	239.4	11,800	160
165	37.7	225.7	12,900	43.4	234.3	11,200	165
170	34.7	218.9	12,300	40.7	228.8	10,600	170
175	31.4	211.2	11,700	37.9	222.7	10,100	175
180	27.8	202.4	11,100	34.9	215.9	9,500	180
185	23.7	192.0	10,600	31.6	208.2	9,100	185
190	18.7	179.1	10,100	28.0	199.5	8,600	190
195	11.9	160.8	9,600	23.9	189.3	8,200	195
200				19.0	176.6	7,700	200
205				12.4	158.8	7,300	205

14000 S-1

ANSI B30.5



124.7 ft



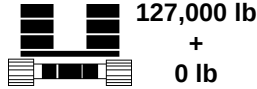
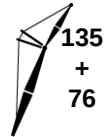
170.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
60	73.9	295.7	35,600 *							60
65	72.1	294.1	34,400 *							65
70	70.3	292.4	33,000 *							70
75	68.5	290.6	31,500 *							75
80	66.7	288.5	30,200 *	69.8	291.0	32,600 *				80
85	64.9	286.3	28,800 *	68.0	289.1	31,200 *				85
90	63.0	283.8	27,500 *	66.2	287.0	29,800 *				90
95	61.1	281.2	26,200 *	64.4	284.7	28,500 *	66.7	286.5	30,100 *	95
100	59.1	278.3	24,900 *	62.5	282.2	27,300 *	64.9	284.3	28,800 *	100
105	57.1	275.2	23,700 *	60.6	279.5	26,000 *	63.0	281.9	27,600 *	105
110	55.1	271.8	22,500 *	58.6	276.5	24,800 *	61.1	279.2	26,300 *	110
115	53.0	268.2	21,500 *	56.6	273.4	23,500 *	59.2	276.3	24,900 *	115
120	50.9	264.3	20,400 *	54.6	270.0	22,400 *	57.2	273.2	23,400 *	120
125	48.7	260.0	19,300 *	52.5	266.3	21,300 *	55.2	269.9	22,100 *	125
130	46.4	255.5	18,400 *	50.3	262.3	20,200 *	53.1	266.3	20,900 *	130
135	44.0	250.5	17,400 *	48.1	258.0	19,100 *	50.9	262.4	19,800 *	135
140	41.5	245.1	16,500 *	45.8	253.3	18,200 *	48.7	258.1	18,700 *	140
145	38.9	239.2	15,600 *	43.4	248.2	17,300 *	46.4	253.6	17,800 *	145
150	36.2	232.7	14,800 *	40.9	242.7	16,400 *	44.1	248.6	16,900 *	150
155	33.2	225.5	14,000 *	38.2	236.6	15,500 *	41.6	243.2	16,000 *	155
160	30.0	217.4	13,200 *	35.4	229.9	14,700 *	39.0	237.3	15,300 *	160
165	26.4	208.0	12,300 *	32.4	222.5	13,900 *	36.2	230.8	14,500 *	165
170	22.3	197.0	11,400 *	29.1	214.1	13,000 *	33.3	223.6	13,800 *	170
175	17.4	183.2	10,600 *	25.4	204.4	12,100 *	30.1	215.5	13,200 *	175
180	10.4	162.9	9,900 *	21.1	192.7	11,200 *	26.5	206.2	12,400 *	180
185				15.8	177.7	10,500 *	22.4	195.2	11,500 *	185
190				7.4	153.4	9,800 *	17.5	181.5	10,700 *	190
195							10.5	161.4	10,000 *	195
200										200
205										205
210										210
215										215



ANSI B30.5

14000 S-1

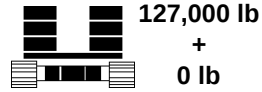
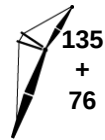


124.7 ft



170.0 ft

	75°			70°			
ft	ft	ft	lb	ft	ft	lb	ft
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110							110
115							115
120	61.3	277.0	20,800				120
125	59.4	274.1	19,600				125
130	57.4	271.1	18,500				130
135	55.4	267.7	17,500				135
140	53.3	264.1	16,500	57.5	267.8	14,400	140
145	51.2	260.3	15,700	55.5	264.5	13,600	145
150	49.0	256.1	14,800	53.4	260.9	12,900	150
155	46.7	251.6	14,100	51.3	257.1	12,200	155
160	44.4	246.7	13,400	49.1	252.9	11,500	160
165	41.9	241.3	12,700	46.9	248.4	10,900	165
170	39.3	235.5	12,100	44.5	243.5	10,300	170
175	36.6	229.1	11,500	42.0	238.2	9,800	175
180	33.6	221.9	10,900	39.5	232.4	9,300	180
185	30.4	214.0	10,400	36.7	226.0	8,800	185
190	26.9	204.8	9,900	33.8	219.0	8,400	190
195	22.9	194.1	9,400	30.7	211.0	7,900	195
200	18.1	180.7	8,900	27.2	202.0	7,500	200
205	11.5	161.8	8,500	23.2	191.4	7,100	205
210				18.5	178.2	6,700	210
215				12.1	159.9	6,400	215



134.5 ft



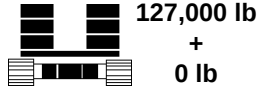
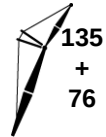
70.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
32	74.5	209.6	98,000 *d							32
34	72.8	209.1	98,000 *d							34
36	71.1	208.4	98,000 *c							36
38	69.3	207.7	98,000 *c							38
40	67.6	206.9	98,000 *c							40
45	63.1	204.6	98,000 *b							45
50	58.4	201.8	88,100 b	67.0	205.6	82,400 c				50
55	53.4	198.4	77,900 b	62.5	203.3	72,800 b				55
60	48.1	194.3	69,600	57.7	200.4	65,100 b	64.2	203.1	61,700 c	60
65	42.4	189.4	62,900	52.7	196.9	58,800 b	59.6	200.4	55,700 b	65
70	35.9	183.2	57,200	47.4	192.7	53,500	54.7	197.2	50,700 b	70
75	28.2	175.2	52,400	41.6	187.7	49,000	49.5	193.3	46,400	75
80	17.6	163.4	48,200	34.9	181.3	45,100	43.9	188.6	42,700	80
85				27.0	173.0	41,700	37.6	182.8	39,500	85
90				15.7	160.2	38,700	30.3	175.4	36,700	90
95							20.8	164.9	34,200	95
100										100
105										105
110										110
115										115
120										120
125										125
130										130

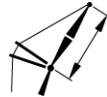


ANSI B30.5

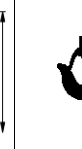
14000 S-1



134.5 ft

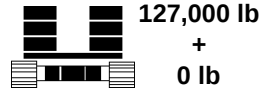
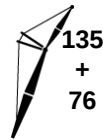


70.0 ft

	75°			70°			65°			
										
	ft	°	ft	lb	°	ft	lb	°	ft	lb
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	60.9	198.5	42,100 b							75
80	56.1	195.4	38,800 b							80
85	51.0	191.8	35,800 b							85
90	45.6	187.3	33,300	57.2	192.5	29,900 b				90
95	39.5	181.9	31,000	52.2	188.9	27,800 b				95
100	32.5	175.0	29,000	46.8	184.7	26,000				100
105	23.9	165.7	27,100	40.9	179.5	24,300				105
110	9.6	149.0	25,400	34.2	173.0	22,800	47.7	180.7	20,200	110
115				26.1	164.4	21,400	41.9	175.7	19,000	115
120				14.1	150.7	20,100	35.3	169.4	17,900	120
125							27.5	161.2	16,800	125
130							16.5	148.8	15,800	130

14000 S-1

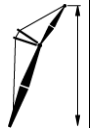
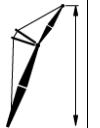
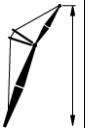
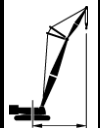
ANSI B30.5



134.5 ft



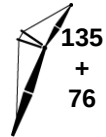
80.0 ft

	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34	75.0	219.5	89,600 *d							34
36	73.5	218.9	89,500 *c							36
38	72.0	218.3	89,500 *c							38
40	70.5	217.6	89,400 *c							40
45	66.6	215.6	89,300 *b							45
50	62.7	213.3	85,600 *b	70.0	216.4	82,100 c				50
55	58.6	210.5	77,600 b	66.1	214.4	72,500 b				55
60	54.3	207.1	69,400	62.1	211.9	64,800 b	67.6	214.1	61,300 c	60
65	49.7	203.2	62,700	58.0	209.1	58,500 b	63.7	211.8	55,300 b	65
70	44.9	198.6	57,100	53.7	205.7	53,200	59.6	209.1	50,300 b	70
75	39.5	193.1	52,300	49.1	201.7	48,700	55.4	205.9	46,100	75
80	33.5	186.3	48,100	44.2	197.0	44,900	50.9	202.2	42,400	80
85	26.3	177.6	44,500	38.8	191.3	41,500	46.1	197.7	39,200	85
90	16.5	164.9	41,300	32.6	184.4	38,600	40.9	192.5	36,500	90
95				25.2	175.3	35,900	35.1	186.1	34,000	95
100				14.7	161.5	33,500	28.3	178.0	31,700	100
105							19.5	166.7	29,700	105
110										110
115										115
120										120
125										125
130										130
135										135
140										140



ANSI B30.5

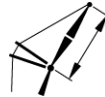
14000 S-1



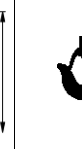
127,000 lb
+
0 lb

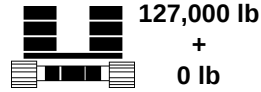
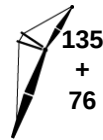


134.5 ft



80.0 ft

	75°			70°			65°			
										
	ft	°	ft	lb	°	ft	lb	°	ft	lb
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	60.8	207.2	38,400 b							80
85	56.6	204.1	35,500							85
90	52.2	200.6	32,900							90
95	47.5	196.3	30,700	57.6	201.1	27,400 b				95
100	42.5	191.3	28,700	53.2	197.7	25,600				100
105	36.9	185.3	26,800	48.6	193.6	23,900				105
110	30.4	177.8	25,200	43.7	188.8	22,500				110
115	22.3	167.7	23,700	38.2	183.1	21,100	49.4	189.6	18,600	115
120	9.0	149.9	22,200	31.9	175.9	19,900	44.4	185.0	17,500	120
125				24.4	166.6	18,700	39.1	179.4	16,500	125
130				13.2	151.9	17,600	33.0	172.5	15,500	130
135							25.7	163.6	14,600	135
140							15.4	150.2	13,800	140



134.5 ft



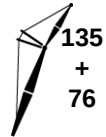
90.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
38	74.1	228.7	81,500 *c							38
40	72.7	228.1	81,400 *c							40
45	69.4	226.4	80,500 *c							45
50	65.9	224.4	77,200 *b							50
55	62.4	221.9	74,100 *b	68.9	225.2	72,300 b				55
60	58.7	219.1	69,300	65.5	223.1	64,600 b				60
65	54.9	215.9	62,500	61.9	220.6	58,300 b	66.8	222.8	55,100 b	65
70	50.9	212.1	56,900	58.2	217.7	53,000	63.3	220.5	50,100 b	70
75	46.7	207.7	52,100	54.4	214.4	48,600	59.7	217.8	45,900	75
80	42.2	202.6	48,000	50.4	210.6	44,700	55.9	214.6	42,200	80
85	37.2	196.6	44,500	46.1	206.1	41,400	52.0	211.0	39,100	85
90	31.5	189.3	41,300	41.5	200.9	38,400	47.8	206.8	36,300	90
95	24.8	179.9	38,500	36.5	194.7	35,900	43.4	201.9	33,800	95
100	15.5	166.3	36,000	30.7	187.2	33,500	38.5	196.1	31,600	100
105				23.8	177.5	31,400	33.1	189.2	29,600	105
110				13.9	162.8	29,500	26.7	180.4	27,900	110
115							18.3	168.4	26,200	115
120										120
125										125
130										130
135										135
140										140
145										145
150										150



ANSI B30.5

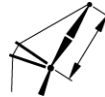
14000 S-1



127,000 lb
+
0 lb



134.5 ft

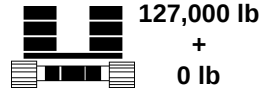
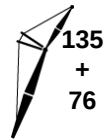


90.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	60.7	215.8	35,200 lb							85
90	57.0	212.8	32,700							90
95	53.1	209.3	30,400							95
100	49.0	205.3	28,500	57.9	209.8	25,300				100
105	44.7	200.6	26,700	54.0	206.4	23,700				105
110	39.9	195.1	25,000	50.0	202.5	22,200				110
115	34.7	188.5	23,600	45.7	198.0	20,900				115
120	28.6	180.4	22,200	41.0	192.7	19,700	50.6	198.5	17,200	120
125	21.0	169.6	20,900	35.9	186.4	18,600	46.4	194.1	16,200	125
130	8.5	150.6	19,700	30.1	178.7	17,500	41.8	188.9	15,300	130
135				22.9	168.7	16,600	36.7	182.8	14,500	135
140				12.5	153.0	15,600	31.0	175.4	13,700	140
145							24.2	165.8	12,900	145
150							14.5	151.6	12,200	150

14000 S-1

ANSI B30.5



134.5 ft



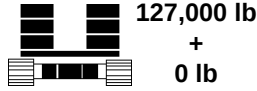
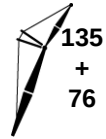
100.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
40	74.5	238.6	74,700 *c							40
45	71.5	237.0	74,400 *c							45
50	68.5	235.2	72,000 *b							50
55	65.3	233.1	69,100 *b							55
60	62.2	230.6	66,200 *	68.1	234.0	64,200 b				60
65	58.9	227.8	62,300	64.9	231.8	58,000 b				65
70	55.4	224.6	56,700	61.7	229.3	52,700	66.2	231.5	49,700 b	70
75	51.9	220.9	51,900	58.4	226.4	48,200	63.0	229.1	45,500	75
80	48.2	216.7	47,800	55.0	223.1	44,400	59.7	226.4	41,900	80
85	44.2	211.9	44,200	51.4	219.4	41,100	56.3	223.3	38,700	85
90	39.9	206.3	41,100	47.6	215.1	38,200	52.8	219.7	36,000	90
95	35.2	199.8	38,400	43.6	210.2	35,600	49.1	215.7	33,500	95
100	29.9	192.0	35,900	39.3	204.6	33,300	45.2	211.1	31,300	100
105	23.5	182.1	33,600	34.5	197.9	31,200	41.0	205.7	29,400	105
110	14.7	167.6	31,600	29.1	189.9	29,300	36.5	199.5	27,600	110
115				22.5	179.5	27,600	31.3	192.0	26,000	115
120				13.2	164.0	26,000	25.3	182.8	24,500	120
125							17.4	169.9	23,100	125
130										130
135										135
140										140
145										145
150										150
155										155
160										160

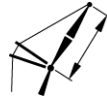


ANSI B30.5

14000 S-1



134.5 ft

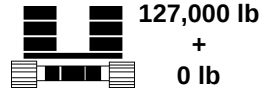
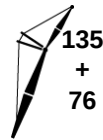


100.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	60.7	224.5	32,300							90
95	57.3	221.5	30,100							95
100	53.8	218.1	28,100							100
105	50.2	214.2	26,300							105
110	46.4	209.7	24,700	54.6	215.2	21,800				110
115	42.3	204.6	23,200	51.0	211.4	20,500				115
120	37.8	198.6	21,900	47.2	207.1	19,300				120
125	32.8	191.6	20,700	43.2	202.1	18,200	51.6	207.3	15,800	125
130	27.1	182.9	19,500	38.8	196.3	17,200	47.8	203.1	14,900	130
135	19.9	171.4	18,500	34.0	189.6	16,300	43.9	198.2	14,100	135
140	8.1	151.3	17,400	28.5	181.3	15,400	39.5	192.6	13,300	140
145				21.7	170.7	14,500	34.8	186.0	12,500	145
150				11.8	154.1	13,700	29.4	178.1	11,900	150
155							22.9	167.9	11,200	155
160							13.8	152.8	10,600	160

14000 S-1

ANSI B30.5



134.5 ft



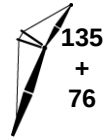
110.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	73.2	247.5	68,500 *b							45
50	70.5	245.9	67,000 *b							50
55	67.7	244.0	64,700 *b							55
60	64.9	241.8	62,500 *	70.1	244.7	64,100 b				60
65	62.0	239.3	60,400 *	67.3	242.7	57,900 b				65
70	59.0	236.4	56,600	64.5	240.5	52,600				70
75	55.9	233.2	51,800	61.6	237.9	48,200	65.6	240.2	45,400	75
80	52.7	229.6	47,800	58.6	235.1	44,300	62.7	237.8	41,800	80
85	49.3	225.6	44,200	55.5	231.8	41,000	59.7	235.1	38,700	85
90	45.8	221.0	41,100	52.2	228.2	38,100	56.7	232.0	35,900	90
95	42.0	215.8	38,300	48.9	224.1	35,500	53.5	228.5	33,500	95
100	38.0	209.9	35,900	45.3	219.4	33,300	50.2	224.6	31,300	100
105	33.5	202.9	33,700	41.5	214.1	31,200	46.7	220.1	29,300	105
110	28.4	194.6	31,700	37.4	208.0	29,300	43.0	215.1	27,600	110
115	22.4	184.1	29,900	32.9	200.9	27,600	39.0	209.4	26,000	115
120	14.0	168.9	28,200	27.7	192.4	26,100	34.7	202.7	24,500	120
125				21.5	181.5	24,700	29.8	194.8	23,200	125
130				12.5	165.1	23,300	24.1	184.9	21,900	130
135							16.6	171.4	20,800	135
140										140
145										145
150										150
155										155
160										160
165										165
170										170



ANSI B30.5

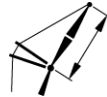
14000 S-1



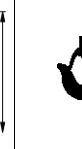
127,000 lb
+
0 lb



134.5 ft

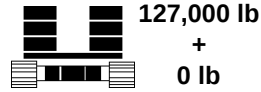
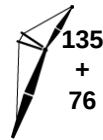


110.0 ft

	75°			70°			65°			
										
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	60.6	233.2	30,000							95
100	57.6	230.2	28,000							100
105	54.4	226.8	26,200							105
110	51.1	223.0	24,600							110
115	47.7	218.7	23,200	55.1	223.9	20,500				115
120	44.1	213.9	21,900	51.9	220.2	19,300				120
125	40.2	208.3	20,700	48.5	216.0	18,200				125
130	36.0	202.0	19,500	44.9	211.3	17,200	52.4	216.1	14,900	130
135	31.3	194.4	18,500	41.1	205.9	16,200	49.0	212.0	14,000	135
140	25.8	185.2	17,500	37.0	199.8	15,400	45.5	207.4	13,300	140
145	19.0	173.1	16,600	32.4	192.6	14,600	41.7	202.1	12,500	145
150	7.7	152.0	15,700	27.1	183.8	13,800	37.6	196.1	11,900	150
155				20.7	172.5	13,100	33.1	189.1	11,200	155
160				11.3	155.1	12,400	28.0	180.6	10,600	160
165							21.8	169.8	10,100	165
170							13.2	154.0	9,500	170

14000 S-1

ANSI B30.5



134.5 ft



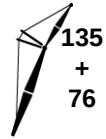
120.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	74.7	257.9	52,000 *c							45
50	72.2	256.4	51,000 *b							50
55	69.7	254.7	50,000 *b							55
60	67.1	252.7	49,100 *							60
65	64.5	250.5	48,300 *	69.3	253.5	50,300 *b				65
70	61.8	247.9	47,400 *	66.7	251.5	49,500 *				70
75	59.0	245.1	46,600 *	64.1	249.2	47,900	67.8	251.1	45,100	75
80	56.2	241.9	45,800 *	61.4	246.6	44,000	65.2	248.9	41,400	80
85	53.3	238.4	44,000	58.7	243.7	40,700	62.5	246.5	38,300	85
90	50.3	234.5	40,900	55.8	240.5	37,800	59.8	243.7	35,600	90
95	47.1	230.1	38,100	52.9	236.9	35,300	57.0	240.7	33,100	95
100	43.7	225.1	35,600	49.8	232.9	33,000	54.1	237.2	31,000	100
105	40.2	219.6	33,500	46.6	228.5	30,900	51.1	233.4	29,000	105
110	36.3	213.2	31,500	43.3	223.5	29,100	47.9	229.1	27,300	110
115	32.0	205.9	29,700	39.7	217.8	27,400	44.6	224.3	25,700	115
120	27.2	197.1	28,000	35.8	211.4	25,800	41.1	218.9	24,200	120
125	21.4	186.0	26,500	31.4	203.8	24,400	37.3	212.8	22,900	125
130	13.4	170.1	25,100	26.5	194.8	23,100	33.2	205.7	21,700	130
135				20.5	183.3	21,900	28.5	197.4	20,500	135
140				12.0	166.2	20,800	23.0	187.0	19,500	140
145							15.9	172.9	18,500	145
150										150
155										155
160										160
165										165
170										170
175										175
180										180



ANSI B30.5

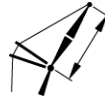
14000 S-1



127,000 lb
+
0 lb



134.5 ft

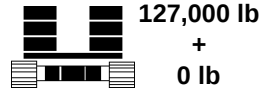
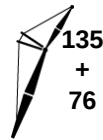


120.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	60.5	241.8	27,600							100
105	57.8	238.8	25,900							105
110	54.9	235.5	24,300							110
115	51.9	231.8	22,800							115
120	48.8	227.6	21,500	55.6	232.6	18,900				120
125	45.6	223.0	20,300	52.6	228.9	17,800				125
130	42.1	217.8	19,200	49.5	224.9	16,800				130
135	38.4	211.9	18,200	46.3	220.4	15,900				135
140	34.4	205.1	17,200	42.9	215.3	15,000	50.0	220.9	12,800	140
145	29.9	197.2	16,300	39.3	209.6	14,200	46.8	216.4	12,100	145
150	24.7	187.5	15,500	35.3	203.0	13,500	43.5	211.5	11,500	150
155	18.2	174.8	14,700	31.0	195.4	12,800	39.9	205.9	10,900	155
160	7.3	152.7	13,900	26.0	186.2	12,100	36.0	199.4	10,300	160
165				19.8	174.3	11,500	31.7	192.0	9,700	165
170				10.8	156.1	10,900	26.8	183.0	9,200	170
175							20.9	171.7	8,700	175
180							12.6	155.1	8,200	180

14000 S-1

ANSI B30.5



134.5 ft



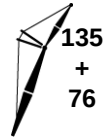
130.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50	73.6	266.9	48,100 *b							50
55	71.3	265.3	47,200 *b							55
60	68.9	263.5	46,300 *							60
65	66.6	261.5	45,500 *	71.0	264.1	47,200 *b				65
70	64.1	259.2	44,800 *	68.6	262.3	46,500 *				70
75	61.7	256.6	44,000 *	66.2	260.2	45,800 *				75
80	59.1	253.8	42,800 *	63.8	257.9	43,800	67.2	259.9	41,200	80
85	56.5	250.6	41,200 *	61.3	255.3	40,500	64.8	257.6	38,000	85
90	53.8	247.1	39,700 *	58.8	252.4	37,600	62.3	255.2	35,300	90
95	51.1	243.3	37,900	56.2	249.2	35,000	59.8	252.4	32,900	95
100	48.2	239.1	35,500	53.5	245.7	32,700	57.2	249.3	30,700	100
105	45.1	234.3	33,300	50.7	241.8	30,700	54.5	245.9	28,800	105
110	41.9	229.1	31,300	47.8	237.5	28,900	51.8	242.2	27,000	110
115	38.5	223.1	29,500	44.7	232.7	27,200	48.9	238.1	25,400	115
120	34.8	216.4	27,900	41.5	227.4	25,700	45.9	233.5	24,000	120
125	30.8	208.7	26,400	38.0	221.3	24,300	42.8	228.3	22,700	125
130	26.1	199.4	25,000	34.3	214.5	23,000	39.4	222.6	21,500	130
135	20.6	187.9	23,700	30.2	206.6	21,800	35.8	216.1	20,300	135
140	12.9	171.2	22,500	25.5	197.1	20,700	31.8	208.7	19,300	140
145				19.7	185.1	19,600	27.4	199.9	18,300	145
150				11.5	167.2	18,700	22.1	189.0	17,400	150
155							15.2	174.2	16,600	155
160										160
165										165
170										170
175										175
180										180
185										185
190										190



ANSI B30.5

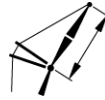
14000 S-1



127,000 lb
+
0 lb

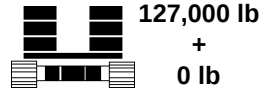
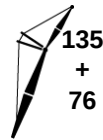


134.5 ft



130.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	60.5	250.5	25,600							105
110	57.9	247.5	24,000							110
115	55.3	244.2	22,600							115
120	52.6	240.6	21,300							120
125	49.7	236.5	20,100	55.9	241.3	17,500				125
130	46.8	232.1	19,000	53.2	237.7	16,500				130
135	43.7	227.1	18,000	50.4	233.8	15,600				135
140	40.4	221.6	17,000	47.5	229.4	14,800				140
145	36.9	215.3	16,100	44.4	224.6	14,000	50.8	229.7	11,900	145
150	33.0	208.2	15,300	41.2	219.2	13,200	47.9	225.4	11,200	150
155	28.7	199.8	14,600	37.7	213.1	12,600	44.9	220.7	10,600	155
160	23.7	189.6	13,800	33.9	206.1	11,900	41.7	215.4	10,000	160
165	17.5	176.3	13,100	29.7	198.1	11,300	38.2	209.4	9,500	165
170	7.1	153.3	12,500	24.9	188.4	10,700	34.5	202.6	9,000	170
175				19.0	176.0	10,200	30.4	194.7	8,500	175
180				10.4	157.0	9,600	25.7	185.4	8,000	180
185							20.1	173.5	7,600	185
190							12.1	156.2	7,200	190



134.5 ft



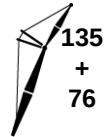
140.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50	74.8	277.3	45,000 *b							50
55	72.7	275.8	44,200 *b							55
60	70.5	274.2	43,400 *							60
65	68.3	272.3	42,700 *							65
70	66.1	270.2	42,000 *	70.2	273.0	43,400 *				70
75	63.8	267.9	40,700 *	68.0	271.0	42,800 *				75
80	61.5	265.3	39,100 *	65.8	268.9	42,200 *				80
85	59.2	262.4	37,600 *	63.5	266.6	40,200	66.7	268.6	37,700	85
90	56.8	259.3	36,100 *	61.2	263.9	37,300	64.4	266.4	35,000	90
95	54.3	255.9	34,700 *	58.9	261.1	34,700	62.1	263.8	32,500	95
100	51.7	252.1	33,300 *	56.4	257.9	32,400	59.8	261.1	30,400	100
105	49.1	248.0	32,000 *	54.0	254.4	30,400	57.4	258.0	28,400	105
110	46.3	243.4	30,700 *	51.4	250.6	28,600	54.9	254.7	26,700	110
115	43.4	238.4	29,200	48.7	246.4	26,900	52.4	251.0	25,100	115
120	40.3	232.8	27,600	45.9	241.8	25,400	49.8	246.9	23,700	120
125	37.1	226.6	26,100	43.0	236.7	24,000	47.0	242.5	22,400	125
130	33.5	219.5	24,700	39.9	231.1	22,700	44.2	237.6	21,200	130
135	29.6	211.4	23,500	36.6	224.7	21,500	41.1	232.2	20,000	135
140	25.2	201.7	22,300	33.0	217.5	20,400	37.9	226.1	19,000	140
145	19.8	189.6	21,200	29.1	209.2	19,400	34.5	219.3	18,100	145
150	12.4	172.3	20,100	24.5	199.3	18,400	30.7	211.5	17,200	150
155				19.0	186.8	17,600	26.4	202.2	16,300	155
160				11.1	168.2	16,700	21.3	190.9	15,500	160
165							14.7	175.6	14,800	165
170										170
175										175
180										180
185										185
190										190



ANSI B30.5

14000 S-1



127,000 lb
+
0 lb

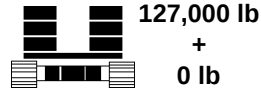
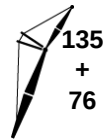


134.5 ft



140.0 ft

	75°			70°			
ft	ft	ft	lb	ft	ft	lb	ft
50							50
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105	62.8	261.8	25,200				105
110	60.5	259.1	23,600				110
115	58.1	256.2	22,200				115
120	55.6	252.9	20,900				120
125	53.1	249.3	19,700				125
130	50.5	245.4	18,600	56.2	249.9	16,100	130
135	47.8	241.1	17,600	53.7	246.4	15,200	135
140	45.0	236.3	16,700	51.1	242.6	14,400	140
145	42.0	231.0	15,800	48.4	238.4	13,600	145
150	38.9	225.2	15,000	45.6	233.7	12,900	150
155	35.5	218.6	14,200	42.7	228.6	12,200	155
160	31.8	211.1	13,500	39.6	222.8	11,600	160
165	27.6	202.3	12,900	36.3	216.4	11,000	165
170	22.8	191.7	12,200	32.6	209.1	10,400	170
175	16.8	177.8	11,600	28.6	200.7	9,900	175
180	6.8	153.9	11,000	24.0	190.6	9,400	180
185				18.3	177.7	8,900	185
190				10.0	157.9	8,400	190



134.5 ft



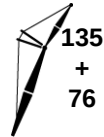
150.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55	73.9	286.3	41,400 *b							55
60	71.9	284.7	40,600 *							60
65	69.8	283.0	40,000 *							65
70	67.8	281.1	39,000 *							70
75	65.7	278.9	37,500 *	69.6	281.8	39,900 *				75
80	63.6	276.5	36,100 *	67.5	279.8	38,900 *				80
85	61.4	273.9	34,600 *	65.4	277.6	37,400 *				85
90	59.2	271.1	33,200 *	63.3	275.2	36,000 *	66.2	277.4	34,800	90
95	57.0	268.0	31,800 *	61.2	272.6	34,600 *	64.1	275.0	32,400	95
100	54.7	264.6	30,500 *	58.9	269.7	32,300	62.0	272.5	30,300	100
105	52.3	260.9	29,200 *	56.7	266.6	30,300	59.8	269.7	28,300	105
110	49.9	256.9	28,000 *	54.4	263.1	28,400	57.6	266.7	26,600	110
115	47.3	252.4	26,800 *	52.0	259.4	26,800	55.3	263.4	25,000	115
120	44.6	247.6	25,600 *	49.5	255.3	25,300	52.9	259.7	23,600	120
125	41.9	242.3	24,500 *	47.0	250.9	23,900	50.5	255.8	22,300	125
130	38.9	236.4	23,500 *	44.3	246.0	22,600	48.0	251.5	21,100	130
135	35.8	229.9	22,600 *	41.5	240.6	21,400	45.3	246.8	20,000	135
140	32.4	222.5	21,600 *	38.5	234.6	20,300	42.6	241.6	18,900	140
145	28.6	214.0	20,800 *	35.3	228.0	19,300	39.7	235.9	18,000	145
150	24.3	203.9	19,900 *	31.9	220.4	18,400	36.6	229.5	17,100	150
155	19.1	191.4	19,200	28.1	211.8	17,500	33.3	222.3	16,300	155
160	12.0	173.4	18,300	23.7	201.4	16,700	29.6	214.1	15,500	160
165				18.3	188.4	15,900	25.5	204.6	14,700	165
170				10.7	169.1	15,100	20.6	192.8	14,000	170
175							14.2	176.8	13,400	175
180										180
185										185
190										190
195										195
200										200



ANSI B30.5

14000 S-1



127,000 lb
+
0 lb

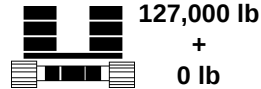
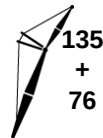


134.5 ft



150.0 ft

	75°			70°			
ft	ft	ft	lb	ft	ft	lb	ft
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110	62.6	270.5	23,500				110
115	60.4	267.8	22,100				115
120	58.2	264.8	20,800				120
125	55.9	261.6	19,600				125
130	53.6	258.1	18,500				130
135	51.2	254.2	17,500	56.5	258.6	15,100	135
140	48.7	250.0	16,600	54.1	255.2	14,300	140
145	46.1	245.4	15,700	51.7	251.4	13,500	145
150	43.4	240.4	14,900	49.3	247.3	12,800	150
155	40.5	234.8	14,200	46.7	242.8	12,100	155
160	37.5	228.6	13,500	44.0	237.8	11,500	160
165	34.2	221.7	12,800	41.2	232.4	10,900	165
170	30.7	213.9	12,200	38.2	226.4	10,300	170
175	26.7	204.7	11,600	35.0	219.6	9,800	175
180	22.1	193.7	11,000	31.5	212.0	9,300	180
185	16.2	179.3	10,500	27.6	203.2	8,800	185
190	6.6	154.5	9,900	23.2	192.7	8,400	190
195				17.7	179.3	7,900	195
200				9.6	158.7	7,500	200



134.5 ft



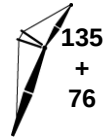
160.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55	74.9	296.7	38,500 *b							55
60	73.0	295.2	37,900 *							60
65	71.1	293.6	37,100 *							65
70	69.2	291.8	35,700 *							70
75	67.3	289.8	34,200 *	70.9	292.4	36,900 *				75
80	65.4	287.6	32,800 *	69.0	290.6	35,500 *				80
85	63.4	285.2	31,400 *	67.1	288.6	34,100 *				85
90	61.3	282.6	30,100 *	65.1	286.3	32,700 *	67.8	288.2	34,400 *	90
95	59.3	279.7	28,700 *	63.1	283.9	31,300 *	65.9	286.1	32,100	95
100	57.2	276.7	27,500 *	61.1	281.3	30,000 *	63.9	283.7	29,900	100
105	55.0	273.3	26,200 *	59.0	278.4	28,700 *	61.9	281.2	28,000	105
110	52.8	269.7	25,000 *	56.9	275.3	27,400 *	59.8	278.4	26,300	110
115	50.5	265.7	23,800 *	54.7	271.9	26,200 *	57.7	275.4	24,700	115
120	48.2	261.4	22,700 *	52.5	268.2	25,000	55.6	272.1	23,300	120
125	45.7	256.7	21,600 *	50.2	264.2	23,600	53.4	268.5	21,900	125
130	43.2	251.6	20,600 *	47.8	259.8	22,300	51.1	264.6	20,700	130
135	40.5	246.1	19,600 *	45.4	255.1	21,100	48.8	260.4	19,600	135
140	37.6	239.9	18,700 *	42.8	249.9	20,100	46.4	255.9	18,600	140
145	34.6	233.0	17,800 *	40.1	244.3	19,100	43.8	250.9	17,700	145
150	31.3	225.3	16,900 *	37.2	238.1	18,100	41.2	245.4	16,800	150
155	27.7	216.5	16,200 *	34.2	231.1	17,200	38.4	239.4	16,000	155
160	23.5	206.0	15,500 *	30.8	223.2	16,400	35.4	232.7	15,200	160
165	18.5	193.0	14,800 *	27.1	214.2	15,700	32.2	225.3	14,500	165
170	11.6	174.4	14,200 *	22.9	203.5	14,900	28.6	216.7	13,800	170
175				17.8	190.0	14,200	24.6	206.8	13,100	175
180				10.4	170.1	13,600	19.9	194.6	12,500	180
185							13.7	178.0	11,900	185
190										190
195										195
200										200
205										205
210										210



ANSI B30.5

14000 S-1



127,000 lb
+
0 lb



134.5 ft

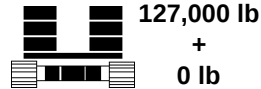
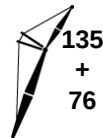


160.0 ft

	75°			70°			
	 ft	 ft	 lb	 ft	 ft	 lb	 ft
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110							110
115	62.4	279.2	21,700				115
120	60.4	276.5	20,400				120
125	58.3	273.5	19,200				125
130	56.2	270.3	18,200				130
135	54.0	266.8	17,200				135
140	51.8	263.0	16,200	56.7	267.3	13,900	140
145	49.5	258.9	15,400	54.5	263.9	13,100	145
150	47.1	254.4	14,600	52.3	260.2	12,400	150
155	44.6	249.6	13,800	50.0	256.1	11,700	155
160	41.9	244.3	13,100	47.6	251.8	11,100	160
165	39.2	238.4	12,500	45.1	247.0	10,500	165
170	36.3	232.0	11,900	42.5	241.8	10,000	170
175	33.1	224.7	11,300	39.8	236.1	9,400	175
180	29.7	216.6	10,700	36.9	229.8	8,900	180
185	25.8	207.1	10,200	33.8	222.7	8,500	185
190	21.4	195.6	9,700	30.5	214.8	8,000	190
195	15.7	180.7	9,200	26.7	205.6	7,600	195
200	6.4	155.1	8,700	22.4	194.7	7,200	200
205				17.2	180.8	6,800	205
210				9.3	159.6	6,400	210

14000 S-1

ANSI B30.5

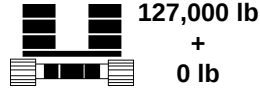
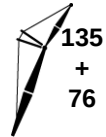


134.5 ft

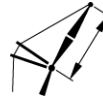


170.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
60	74.0	305.6	35,200 *							60
65	72.3	304.1	34,200 *							65
70	70.5	302.5	32,900 *							70
75	68.7	300.6	31,500 *							75
80	66.9	298.6	30,200 *	70.3	301.2	32,700 *				80
85	65.0	296.3	28,900 *	68.5	299.4	31,300 *				85
90	63.2	293.9	27,500 *	66.7	297.3	30,000 *				90
95	61.3	291.3	26,300 *	64.8	295.0	28,700 *	67.4	297.0	30,400 *	95
100	59.3	288.4	25,000 *	62.9	292.6	27,400 *	65.5	294.8	29,100 *	100
105	57.4	285.3	23,800 *	61.0	289.9	26,200 *	63.7	292.4	27,700	105
110	55.3	282.0	22,700 *	59.1	287.0	25,000 *	61.8	289.8	26,000	110
115	53.2	278.4	21,600 *	57.1	283.9	23,800 *	59.8	287.0	24,400	115
120	51.1	274.5	20,500 *	55.1	280.6	22,600 *	57.9	284.0	23,000	120
125	48.9	270.3	19,400 *	53.0	276.9	21,500 *	55.9	280.7	21,700	125
130	46.6	265.8	18,400 *	50.8	273.0	20,400 *	53.8	277.2	20,500	130
135	44.3	260.9	17,500 *	48.6	268.8	19,400 *	51.7	273.4	19,400	135
140	41.8	255.5	16,600 *	46.3	264.2	18,500 *	49.5	269.3	18,400	140
145	39.2	249.7	15,700 *	44.0	259.2	17,500 *	47.2	264.9	17,400	145
150	36.5	243.2	14,900 *	41.5	253.8	16,600 *	44.9	260.0	16,600	150
155	33.5	236.1	14,100 *	38.9	247.9	15,700 *	42.5	254.8	15,700	155
160	30.3	228.1	13,300 *	36.1	241.4	14,900 *	39.9	249.1	15,000	160
165	26.8	218.9	12,300 *	33.1	234.1	14,100 *	37.2	242.8	14,200	165
170	22.8	208.1	11,500 *	29.9	226.0	13,200 *	34.3	235.9	13,600	170
175	18.0	194.6	10,700 *	26.3	216.6	12,300 *	31.2	228.1	12,900	175
180	11.3	175.4	10,000 *	22.2	205.5	11,400 *	27.8	219.3	12,300	180
185				17.2	191.6	10,700 *	23.9	208.9	11,700	185
190				10.1	171.0	9,900 *	19.3	196.3	11,000 *	190
195							13.3	179.2	10,200 *	195
200										200
205										205
210										210



134.5 ft

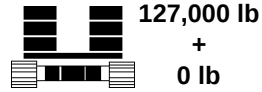
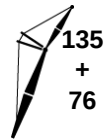


170.0 ft

	75°		
	ft	ft	lb
60			
65			
70			
75			
80			
85			
90			
95			
100			
105			
110			
115			
120	62.3	287.9	20,200
125	60.4	285.1	19,000
130	58.4	282.2	17,900
135	56.4	279.0	16,900
140	54.4	275.5	16,000
145	52.3	271.8	15,100
150	50.1	267.8	14,300
155	47.9	263.4	13,600
160	45.6	258.7	12,900
165	43.2	253.6	12,200
170	40.6	248.0	11,600
175	38.0	241.9	11,000
180	35.1	235.2	10,500
185	32.1	227.7	10,000
190	28.8	219.1	9,500
195	25.0	209.3	9,000
200	20.7	197.4	8,600
205	15.2	182.1	8,100
210	6.2	155.6	7,700

14000 S-1

ANSI B30.5



144.4 ft



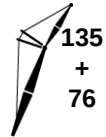
70.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
32	74.9	219.6	94,900 *d							32
34	73.2	219.1	94,900 *d							34
36	71.5	218.4	94,900 *c							36
38	69.8	217.7	94,900 *c							38
40	68.0	216.9	94,900 *c							40
45	63.5	214.7	93,000 *b							45
50	58.9	211.9	86,200 *b	68.0	215.9	81,600 c				50
55	53.9	208.6	77,600 b	63.6	213.7	72,100 b				55
60	48.7	204.6	69,400	58.9	210.9	64,500 b	65.8	213.6	60,800 c	60
65	43.0	199.8	62,700	54.0	207.6	58,200 b	61.2	211.1	54,900 b	65
70	36.6	193.8	57,000	48.7	203.6	53,000	56.4	208.1	50,000 b	70
75	29.0	186.0	52,200	43.0	198.7	48,500	51.3	204.4	45,800 b	75
80	19.0	174.8	48,000	36.6	192.7	44,700	45.9	200.0	42,100	80
85				29.1	185.0	41,300	39.9	194.6	39,000	85
90				19.0	173.8	38,300	33.0	187.9	36,200	90
95							24.5	178.7	33,700	95
100							11.0	163.1	31,400	100
105										105
110										110
115										115
120										120
125										125
130										130
135										135



ANSI B30.5

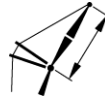
14000 S-1



127,000 lb
+
0 lb

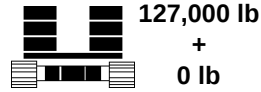
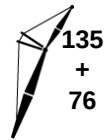


144.4 ft



70.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	58.6	206.6	37,800 b							80
85	53.7	203.2	35,000 b							85
90	48.4	199.2	32,500							90
95	42.7	194.3	30,300	55.6	200.6	26,800 b				95
100	36.2	188.2	28,300	50.5	196.9	25,100 b				100
105	28.6	180.3	26,500	45.0	192.4	23,500				105
110	18.3	168.8	24,800	38.9	186.8	22,000	52.1	193.1	19,200 b	110
115				31.8	179.7	20,700	46.8	188.9	18,000	115
120				22.8	170.0	19,400	40.8	183.6	16,900	120
125				6.7	151.1	18,200	34.1	177.1	15,900	125
130							25.9	168.5	15,000	130
135							13.9	154.7	14,100	135



144.4 ft



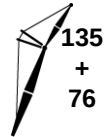
80.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36	73.9	228.9	86,900 *c							36
38	72.4	228.3	86,800 *c							38
40	70.9	227.6	86,700 *c							40
45	67.0	225.7	86,600 *b							45
50	63.1	223.4	82,800 *b	70.9	226.6	81,300 c				50
55	59.0	220.6	77,300 *b	67.1	224.7	71,800 b				55
60	54.7	217.3	69,200	63.1	222.3	64,200 b				60
65	50.2	213.5	62,500	59.0	219.6	57,900 b	65.1	222.3	54,500 b	65
70	45.4	209.0	56,800	54.7	216.3	52,700	61.1	219.8	49,600 b	70
75	40.1	203.6	52,100	50.2	212.5	48,300	56.9	216.7	45,400 b	75
80	34.2	196.9	48,000	45.4	207.9	44,400	52.5	213.2	41,800	80
85	27.1	188.5	44,400	40.1	202.5	41,100	47.8	209.0	38,700	85
90	17.7	176.4	41,200	34.2	195.9	38,200	42.8	204.1	35,900	90
95				27.2	187.5	35,600	37.2	198.1	33,500	95
100				17.8	175.4	33,200	30.8	190.7	31,300	100
105							22.9	180.8	29,300	105
110							10.3	164.0	27,400	110
115										115
120										120
125										125
130										130
135										135
140										140
145										145



ANSI B30.5

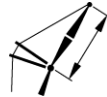
14000 S-1



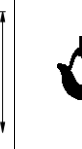
127,000 lb
+
0 lb

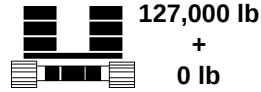
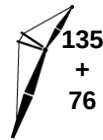


144.4 ft



80.0 ft

	75°			70°			65°			
										
	ft	°	ft	lb	ft	°	ft	lb	ft	°
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	62.9	218.0	37,400 b							80
85	58.8	215.2	34,600 b							85
90	54.5	212.0	32,100							90
95	50.0	208.1	29,900							95
100	45.1	203.5	27,900	56.2	209.3	24,600				100
105	39.8	198.0	26,200	51.8	205.7	23,100				105
110	33.8	191.4	24,600	47.0	201.4	21,600				110
115	26.7	182.8	23,100	41.9	196.3	20,300				115
120	17.1	170.4	21,700	36.3	190.2	19,100	48.6	197.8	16,500	120
125				29.7	182.5	18,000	43.6	193.0	15,600	125
130				21.3	172.0	17,000	38.1	187.2	14,700	130
135				6.3	151.7	15,900	31.8	180.1	13,800	135
140							24.2	170.7	13,000	140
145							13.0	155.8	12,300	145



144.4 ft



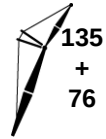
90.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
38	74.4	238.7	79,200 *c							38
40	73.1	238.1	79,100 *c							40
45	69.7	236.4	78,800 *c							45
50	66.3	234.4	76,800 *b							50
55	62.8	232.0	73,800 *b	69.7	235.4	71,600 c				55
60	59.1	229.3	69,000	66.3	233.4	64,000 b				60
65	55.3	226.0	62,300	62.8	231.0	57,700 b	68.0	233.2	54,300 b	65
70	51.4	222.3	56,700	59.1	228.2	52,500	64.5	231.0	49,400 b	70
75	47.2	218.0	51,900	55.3	225.0	48,100	60.9	228.4	45,200 b	75
80	42.6	213.0	47,900	51.4	221.3	44,300	57.2	225.4	41,600	80
85	37.7	207.1	44,300	47.2	217.0	41,000	53.4	222.0	38,500	85
90	32.1	199.9	41,200	42.7	212.0	38,100	49.3	218.0	35,700	90
95	25.5	190.8	38,400	37.7	206.1	35,500	44.9	213.3	33,300	95
100	16.7	177.9	35,900	32.2	198.9	33,200	40.2	207.9	31,100	100
105				25.6	189.9	31,100	35.0	201.4	29,200	105
110				16.8	176.9	29,200	29.0	193.4	27,400	110
115							21.5	182.8	25,800	115
120							9.7	164.9	24,300	120
125										125
130										130
135										135
140										140
145										145
150										150
155										155



ANSI B30.5

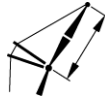
14000 S-1



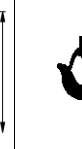
127,000 lb
+
0 lb



144.4 ft

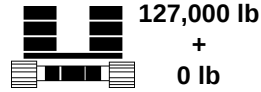
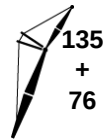


90.0 ft

	75°			70°			65°			
										
	ft	°	ft	lb	ft	lb	ft	lb	ft	
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	62.6	226.7	34,300 lb							85
90	58.9	223.9	31,900							90
95	55.1	220.7	29,700							95
100	51.1	216.9	27,700							100
105	46.9	212.6	26,000	56.6	218.0	22,800				105
110	42.4	207.5	24,400	52.7	214.5	21,400				110
115	37.4	201.5	23,000	48.6	210.4	20,100				115
120	31.8	194.3	21,600	44.2	205.6	18,900				120
125	25.2	185.1	20,400	39.4	200.0	17,800	49.9	206.7	15,300	125
130	16.1	171.8	19,300	34.1	193.3	16,800	45.6	202.2	14,400	130
135				27.9	185.0	15,900	41.0	196.9	13,600	135
140				20.1	173.8	15,000	35.8	190.6	12,900	140
145				6.0	152.2	14,100	30.0	182.8	12,100	145
150							22.8	172.8	11,500	150
155							12.2	156.9	10,800	155

14000 S-1

ANSI B30.5



144.4 ft



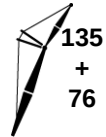
100.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	ft	
40	74.8	248.5	72,700 *c							40
45	71.8	247.0	72,400 *c							45
50	68.8	245.2	71,600 *b							50
55	65.7	243.1	68,700 *b							55
60	62.5	240.7	66,000 *	68.8	244.2	63,600 b				60
65	59.2	237.9	62,100	65.7	242.1	57,400 b				65
70	55.8	234.7	56,500	62.5	239.7	52,200	67.2	242.0	49,000 b	70
75	52.3	231.1	51,700	59.2	236.9	47,800	64.1	239.7	44,800 b	75
80	48.5	227.0	47,600	55.8	233.7	44,000	60.8	237.1	41,200	80
85	44.6	222.2	44,100	52.3	230.1	40,700	57.5	234.1	38,100	85
90	40.4	216.8	41,000	48.6	226.0	37,800	54.0	230.7	35,400	90
95	35.7	210.4	38,200	44.6	221.2	35,200	50.4	226.8	33,000	95
100	30.5	202.7	35,700	40.4	215.8	32,900	46.6	222.4	30,800	100
105	24.2	193.0	33,500	35.7	209.4	30,900	42.5	217.3	28,900	105
110	15.8	179.3	31,500	30.5	201.7	29,000	38.1	211.4	27,100	110
115				24.2	192.1	27,300	33.2	204.4	25,600	115
120				15.9	178.4	25,700	27.5	195.9	24,100	120
125							20.4	184.6	22,700	125
130							9.2	165.7	21,500	130
135										135
140										140
145										145
150										150
155										155
160										160
165										165



ANSI B30.5

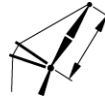
14000 S-1



127,000 lb
+
0 lb



144.4 ft

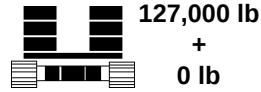
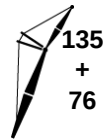


100.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	62.3	235.4	31,500							90
95	59.0	232.6	29,300							95
100	55.6	229.4	27,300							100
105	52.1	225.7	25,600							105
110	48.3	221.6	24,000	57.0	226.7	21,000				110
115	44.4	216.8	22,600	53.5	223.2	19,700				115
120	40.1	211.3	21,300	49.8	219.3	18,500				120
125	35.4	204.8	20,100	46.0	214.7	17,500				125
130	30.2	197.1	19,000	41.8	209.6	16,500	51.0	215.6	14,000	130
135	23.8	187.3	18,000	37.3	203.5	15,600	47.2	211.2	13,200	135
140	15.3	173.2	17,000	32.3	196.3	14,700	43.2	206.3	12,500	140
145				26.5	187.4	13,900	38.8	200.5	11,800	145
150				19.1	175.5	13,200	33.9	193.7	11,100	150
155				5.6	152.7	12,400	28.4	185.4	10,500	155
160							21.6	174.7	9,900	160
165							11.6	158.0	9,300	165

14000 S-1

ANSI B30.5



144.4 ft



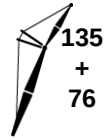
110.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	73.5	257.5	66,800 *c							45
50	70.8	255.9	66,400 *b							50
55	68.0	254.0	64,200 *b							55
60	65.2	251.9	62,100 *	70.8	254.9	63,500 b				60
65	62.3	249.4	60,000 *	68.0	253.0	57,300 b				65
70	59.3	246.6	56,400	65.2	250.8	52,100				70
75	56.2	243.4	51,600	62.3	248.4	47,700	66.6	250.7	44,700 b	75
80	53.0	239.9	47,600	59.3	245.6	43,900	63.7	248.4	41,200	80
85	49.7	235.9	44,000	56.2	242.4	40,600	60.8	245.7	38,100	85
90	46.2	231.4	40,900	53.0	238.9	37,700	57.7	242.8	35,300	90
95	42.4	226.2	38,200	49.7	234.9	35,200	54.6	239.4	32,900	95
100	38.4	220.4	35,700	46.2	230.3	32,900	51.3	235.6	30,800	100
105	34.0	213.5	33,500	42.4	225.2	30,900	47.9	231.4	28,900	105
110	29.0	205.4	31,500	38.4	219.4	29,000	44.3	226.6	27,100	110
115	23.1	195.1	29,700	34.0	212.5	27,400	40.4	221.1	25,600	115
120	15.1	180.7	28,100	29.0	204.4	25,800	36.2	214.8	24,100	120
125				23.1	194.2	24,400	31.6	207.4	22,800	125
130				15.2	179.7	23,100	26.2	198.3	21,600	130
135							19.5	186.4	20,400	135
140							8.8	166.5	19,300	140
145										145
150										150
155										155
160										160
165										165
170										170
175										175



ANSI B30.5

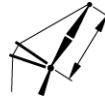
14000 S-1



127,000 lb
+
0 lb



144.4 ft

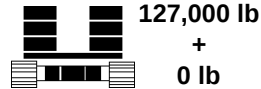
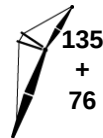


110.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	62.1	244.1	29,200							95
100	59.1	241.2	27,300							100
105	56.0	238.1	25,500							105
110	52.8	234.5	24,000							110
115	49.5	230.5	22,600	57.2	235.4	19,600				115
120	46.0	225.9	21,300	54.1	232.0	18,500				120
125	42.2	220.7	20,100	50.8	228.1	17,400				125
130	38.2	214.8	19,000	47.4	223.8	16,400				130
135	33.7	207.9	18,000	43.7	218.9	15,500	51.8	224.4	13,200	135
140	28.7	199.7	17,000	39.8	213.3	14,700	48.5	220.2	12,400	140
145	22.7	189.3	16,200	35.5	206.8	13,900	44.9	215.5	11,700	145
150	14.6	174.5	15,300	30.8	199.1	13,200	41.0	210.1	11,100	150
155				25.2	189.7	12,500	36.9	203.9	10,500	155
160				18.2	177.2	11,900	32.3	196.7	9,900	160
165				5.4	153.2	11,200	27.1	187.9	9,400	165
170							20.6	176.6	8,900	170
175							11.1	159.0	8,400	175

14000 S-1

ANSI B30.5



144.4 ft



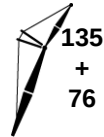
120.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	74.9	267.9	51,300 *c							45
50	72.4	266.4	50,300 *b							50
55	69.9	264.7	49,400 *b							55
60	67.4	262.8	48,500 *							60
65	64.7	260.5	47,600 *	69.9	263.7	49,700 *b				65
70	62.1	258.0	46,800 *	67.4	261.7	48,900 *				70
75	59.3	255.2	46,000 *	64.8	259.5	47,400				75
80	56.5	252.1	45,300 *	62.1	257.0	43,600	66.0	259.4	40,800	80
85	53.6	248.6	43,800	59.3	254.2	40,300	63.4	257.1	37,700	85
90	50.6	244.7	40,700	56.5	251.1	37,400	60.7	254.4	35,000	90
95	47.4	240.4	37,900	53.6	247.6	34,900	57.9	251.4	32,600	95
100	44.1	235.5	35,500	50.6	243.7	32,600	55.1	248.1	30,400	100
105	40.5	230.0	33,300	47.4	239.4	30,600	52.1	244.4	28,500	105
110	36.7	223.8	31,300	44.1	234.5	28,700	49.0	240.3	26,800	110
115	32.5	216.5	29,500	40.6	229.0	27,100	45.8	235.7	25,200	115
120	27.7	207.9	27,900	36.7	222.7	25,600	42.3	230.6	23,800	120
125	22.1	197.1	26,400	32.5	215.5	24,200	38.6	224.7	22,500	125
130	14.5	182.0	25,000	27.8	206.9	22,900	34.6	218.0	21,300	130
135				22.1	196.1	21,700	30.2	210.1	20,200	135
140				14.5	181.0	20,600	25.0	200.6	19,100	140
145							18.6	188.1	18,200	145
150							8.4	167.2	17,200	150
155										155
160										160
165										165
170										170
175										175



ANSI B30.5

14000 S-1



127,000 lb
+
0 lb



144.4 ft

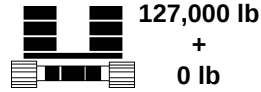
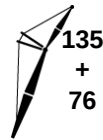


120.0 ft

	75°			70°			
ft	ft	ft	lb	ft	ft	lb	ft
45							45
50							50
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100	61.9	252.7	26,900				100
105	59.2	249.9	25,200				105
110	56.4	246.7	23,600				110
115	53.4	243.2	22,200				115
120	50.4	239.3	20,900	57.5	244.1	18,100	120
125	47.2	234.9	19,700	54.6	240.7	17,000	125
130	43.9	230.1	18,600	51.6	236.9	16,000	130
135	40.3	224.5	17,600	48.5	232.7	15,200	135
140	36.5	218.2	16,700	45.2	228.1	14,300	140
145	32.3	210.9	15,900	41.8	222.8	13,600	145
150	27.5	202.2	15,000	38.0	216.8	12,800	150
155	21.7	191.3	14,300	34.0	209.9	12,200	155
160	13.9	175.7	13,500	29.4	201.8	11,500	160
165				24.1	191.9	10,900	165
170				17.4	178.7	10,400	170
175				5.2	153.6	9,800	175

14000 S-1

ANSI B30.5



144.4 ft



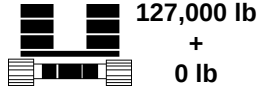
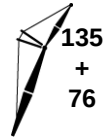
130.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50	73.8	276.9	47,400 *b							50
55	71.5	275.3	46,500 *b							55
60	69.2	273.5	45,700 *							60
65	66.8	271.5	45,000 *							65
70	64.4	269.2	44,200 *	69.2	272.5	46,000 *				70
75	61.9	266.7	43,500 *	66.8	270.5	45,300 *				75
80	59.4	263.9	42,700 *	64.4	268.2	43,300	68.0	270.3	40,500	80
85	56.8	260.8	41,100 *	61.9	265.7	40,100	65.6	268.1	37,400	85
90	54.1	257.4	39,700 *	59.4	262.9	37,200	63.1	265.7	34,700	90
95	51.3	253.6	37,700	56.8	259.8	34,600	60.6	263.1	32,300	95
100	48.5	249.3	35,300	54.1	256.3	32,400	58.1	260.1	30,200	100
105	45.4	244.7	33,100	51.4	252.5	30,400	55.5	256.8	28,300	105
110	42.3	239.5	31,200	48.5	248.3	28,500	52.7	253.2	26,600	110
115	38.9	233.6	29,400	45.5	243.7	26,900	49.9	249.2	25,000	115
120	35.2	227.0	27,700	42.3	238.4	25,400	47.0	244.8	23,600	120
125	31.2	219.4	26,200	38.9	232.6	24,000	43.9	239.9	22,300	125
130	26.6	210.3	24,900	35.2	226.0	22,700	40.6	234.3	21,100	130
135	21.2	199.0	23,600	31.2	218.4	21,500	37.1	228.1	20,000	135
140	13.9	183.2	22,400	26.7	209.3	20,400	33.2	221.0	19,000	140
145				21.2	198.1	19,400	29.0	212.7	18,000	145
150				13.9	182.3	18,400	24.0	202.7	17,100	150
155							17.9	189.7	16,300	155
160							8.0	168.0	15,400	160
165										165
170										170
175										175
180										180
185										185



ANSI B30.5

14000 S-1

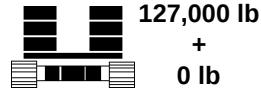
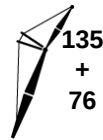


144.4 ft



130.0 ft

	75°			70°			
ft	ft	ft	lb	ft	ft	lb	ft
50							50
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105	61.8	261.4	24,900				105
110	59.3	258.6	23,300				110
115	56.7	255.4	21,900				115
120	54.0	252.0	20,700				120
125	51.2	248.1	19,500	57.7	252.7	16,700	125
130	48.3	243.9	18,400	55.0	249.4	15,800	130
135	45.3	239.2	17,400	52.3	245.7	14,900	135
140	42.1	234.0	16,500	49.4	241.6	14,100	140
145	38.7	228.1	15,600	46.5	237.1	13,300	145
150	35.0	221.4	14,800	43.4	232.1	12,600	150
155	31.0	213.7	14,100	40.0	226.5	11,900	155
160	26.4	204.6	13,400	36.5	220.2	11,300	160
165	20.9	193.2	12,700	32.6	212.9	10,700	165
170	13.4	176.9	12,100	28.3	204.4	10,200	170
175				23.2	194.0	9,700	175
180				16.7	180.2	9,100	180
185				5.0	154.1	8,600	185



144.4 ft



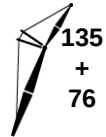
140.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55	72.9	285.8	43,600 *b							55
60	70.7	284.2	42,900 *							60
65	68.5	282.3	42,200 *							65
70	66.3	280.2	41,500 *	70.7	283.2	42,900 *				70
75	64.1	277.9	40,600 *	68.6	281.3	42,300 *				75
80	61.8	275.4	39,100 *	66.3	279.2	41,800 *				80
85	59.4	272.6	37,600 *	64.1	276.9	39,700	67.4	279.0	37,100	85
90	57.0	269.5	36,200 *	61.8	274.4	36,900	65.2	276.9	34,400	90
95	54.5	266.1	34,700 *	59.4	271.5	34,300	62.9	274.4	32,000	95
100	52.0	262.3	33,400 *	57.0	268.5	32,100	60.6	271.7	29,900	100
105	49.4	258.2	32,100 *	54.6	265.0	30,100	58.2	268.8	28,000	105
110	46.6	253.7	30,900 *	52.0	261.3	28,200	55.8	265.5	26,200	110
115	43.7	248.8	29,100	49.4	257.2	26,600	53.3	262.0	24,700	115
120	40.7	243.2	27,500	46.6	252.7	25,100	50.7	258.1	23,300	120
125	37.4	237.1	26,000	43.7	247.7	23,700	48.0	253.8	22,000	125
130	33.9	230.1	24,600	40.7	242.2	22,400	45.2	249.0	20,800	130
135	30.0	222.1	23,400	37.4	236.1	21,300	42.2	243.8	19,700	135
140	25.7	212.6	22,200	33.9	229.1	20,200	39.1	238.0	18,700	140
145	20.4	200.9	21,100	30.1	221.1	19,200	35.7	231.4	17,700	145
150	13.4	184.4	20,100	25.7	211.6	18,200	32.0	224.0	16,800	150
155				20.5	199.9	17,300	27.9	215.3	16,000	155
160				13.4	183.5	16,500	23.2	204.8	15,200	160
165							17.2	191.2	14,500	165
170							7.8	168.6	13,700	170
175										175
180										180
185										185
190										190
195										195



ANSI B30.5

14000 S-1



127,000 lb
+
0 lb

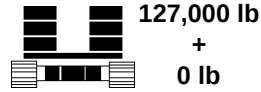
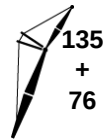


144.4 ft



140.0 ft

	75°			70°			
ft	ft	ft	lb	ft	ft	lb	ft
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110	61.7	270.1	22,900				110
115	59.3	267.2	21,500				115
120	56.9	264.1	20,300				120
125	54.4	260.7	19,100				125
130	51.9	257.0	18,000	57.8	261.4	15,400	130
135	49.2	252.8	17,100	55.4	258.1	14,500	135
140	46.4	248.3	16,100	52.9	254.5	13,700	140
145	43.6	243.3	15,300	50.3	250.5	12,900	145
150	40.5	237.7	14,500	47.5	246.1	12,200	150
155	37.2	231.6	13,800	44.7	241.3	11,600	155
160	33.7	224.5	13,100	41.7	236.0	11,000	160
165	29.8	216.4	12,400	38.5	230.1	10,400	165
170	25.4	206.9	11,800	35.1	223.4	9,800	170
175	20.1	195.0	11,200	31.4	215.8	9,300	175
180	12.9	178.1	10,600	27.2	206.9	8,800	180
185				22.3	196.0	8,400	185
190				16.1	181.7	7,900	190
195				4.8	154.5	7,400	195



144.4 ft



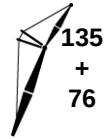
150.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55	74.1	296.3	40,800 *b							55
60	72.1	294.7	40,100 *							60
65	70.0	293.0	39,500 *							65
70	68.0	291.1	38,900 *							70
75	65.9	289.0	37,400 *	70.1	292.0	39,500 *				75
80	63.8	286.6	36,000 *	68.0	290.1	38,900 *				80
85	61.7	284.0	34,600 *	65.9	288.0	37,500 *				85
90	59.5	281.2	33,200 *	63.8	285.6	36,100 *	67.0	287.8	34,200	90
95	57.2	278.1	31,800 *	61.7	283.0	34,200	64.9	285.5	31,900	95
100	54.9	274.8	30,500 *	59.5	280.2	32,000	62.7	283.1	29,700	100
105	52.6	271.1	29,300 *	57.2	277.1	29,900	60.6	280.4	27,800	105
110	50.1	267.1	28,100 *	54.9	273.8	28,100	58.3	277.4	26,100	110
115	47.6	262.7	26,900 *	52.6	270.1	26,500	56.1	274.2	24,600	115
120	44.9	258.0	25,800 *	50.1	266.1	25,000	53.7	270.7	23,200	120
125	42.2	252.7	24,700 *	47.6	261.7	23,600	51.3	266.9	21,900	125
130	39.2	246.9	23,600 *	44.9	257.0	22,300	48.8	262.7	20,700	130
135	36.1	240.4	22,700 *	42.2	251.7	21,200	46.3	258.1	19,600	135
140	32.7	233.1	21,700 *	39.2	245.9	20,100	43.5	253.1	18,600	140
145	29.0	224.7	20,900 *	36.1	239.4	19,100	40.7	247.6	17,600	145
150	24.8	214.9	20,000	32.7	232.1	18,200	37.7	241.4	16,800	150
155	19.7	202.6	19,100	29.0	223.7	17,300	34.4	234.6	15,900	155
160	12.9	185.6	18,200	24.8	213.9	16,500	30.9	226.8	15,200	160
165				19.7	201.7	15,700	26.9	217.7	14,400	165
170				13.0	184.6	15,000	22.4	206.8	13,800	170
175							16.6	192.7	13,100	175
180							7.5	169.3	12,500	180
185										185
190										190
195										195
200										200
205										205



ANSI B30.5

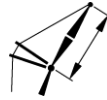
14000 S-1



127,000 lb
+
0 lb



144.4 ft

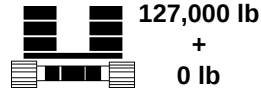
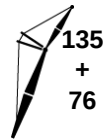


150.0 ft

	75°			70°			
ft	ft	ft	lb	ft	ft	lb	ft
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110							110
115	61.5	278.7	21,400				115
120	59.4	275.9	20,200				120
125	57.1	272.8	19,000				125
130	54.8	269.4	17,900				130
135	52.4	265.7	16,900	58.0	270.1	14,400	135
140	50.0	261.7	16,000	55.7	266.8	13,600	140
145	47.4	257.3	15,200	53.4	263.2	12,800	145
150	44.8	252.5	14,400	50.9	259.3	12,100	150
155	42.0	247.2	13,700	48.4	255.1	11,500	155
160	39.1	241.4	13,000	45.8	250.5	10,900	160
165	35.9	234.9	12,300	43.1	245.4	10,300	165
170	32.5	227.5	11,700	40.2	239.7	9,700	170
175	28.8	219.1	11,200	37.2	233.5	9,200	175
180	24.5	209.1	10,600	33.9	226.5	8,800	180
185	19.4	196.7	10,100	30.3	218.5	8,300	185
190	12.5	179.2	9,600	26.3	209.2	7,900	190
195				21.5	198.0	7,400	195
200				15.5	183.1	7,000	200
205				4.6	154.9	6,600	205

14000 S-1

ANSI B30.5

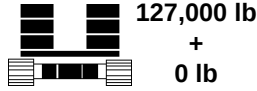
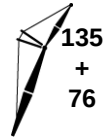


144.4 ft

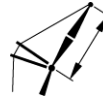


160.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
60	73.2	305.2	37,400 *							60
65	71.3	303.6	36,800 *							65
70	69.4	301.8	35,500 *							70
75	67.5	299.9	34,200 *							75
80	65.6	297.7	32,800 *	69.4	300.8	35,500 *				80
85	63.6	295.3	31,400 *	67.5	298.8	34,200 *				85
90	61.6	292.7	30,100 *	65.6	296.7	32,800 *				90
95	59.5	289.9	28,700 *	63.6	294.3	31,500 *	66.5	296.5	31,500	95
100	57.4	286.8	27,500 *	61.6	291.7	30,200 *	64.6	294.2	29,400	100
105	55.2	283.5	26,300 *	59.5	288.9	29,000 *	62.6	291.8	27,500	105
110	53.0	279.9	25,100 *	57.4	285.8	27,600 *	60.5	289.0	25,800	110
115	50.8	276.0	23,900 *	55.3	282.5	26,200	58.4	286.1	24,200	115
120	48.4	271.7	22,800 *	53.1	278.9	24,700	56.3	282.9	22,800	120
125	46.0	267.1	21,800 *	50.8	274.9	23,300	54.1	279.4	21,500	125
130	43.4	262.0	20,700 *	48.4	270.7	22,000	51.9	275.7	20,400	130
135	40.8	256.5	19,700 *	46.0	266.0	20,900	49.6	271.6	19,300	135
140	37.9	250.4	18,800 *	43.4	261.0	19,800	47.2	267.1	18,300	140
145	34.9	243.6	17,900 *	40.8	255.5	18,800	44.7	262.3	17,300	145
150	31.7	236.0	17,100 *	37.9	249.4	17,900	42.1	257.0	16,400	150
155	28.1	227.3	16,400 *	34.9	242.6	17,000	39.4	251.2	15,600	155
160	24.0	217.0	15,600 *	31.7	235.0	16,200	36.4	244.8	14,900	160
165	19.1	204.4	14,900 *	28.1	226.3	15,400	33.3	237.6	14,200	165
170	12.5	186.7	14,400 *	24.0	216.1	14,700	29.9	229.5	13,500	170
175				19.1	203.4	14,000	26.1	220.1	12,800	175
180				12.6	185.8	13,400	21.6	208.8	12,200	180
185							16.1	194.1	11,700	185
190							7.3	170.0	11,100	190
195										195
200										200



144.4 ft

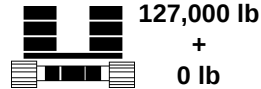
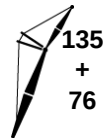


160.0 ft

	75°		
			
	ft	ft	lb
60			
65			
70			
75			
80			
85			
90			
95			
100			
105			
110			
115			
120	61.5	287.4	19,800
125	59.4	284.5	18,600
130	57.3	281.5	17,600
135	55.1	278.1	16,600
140	52.9	274.5	15,700
145	50.6	270.5	14,800
150	48.3	266.3	14,100
155	45.8	261.6	13,300
160	43.3	256.5	12,700
165	40.6	251.0	12,000
170	37.8	244.9	11,400
175	34.7	238.0	10,800
180	31.5	230.4	10,300
185	27.9	221.6	9,800
190	23.7	211.2	9,300
195	18.8	198.4	8,800
200	12.1	180.3	8,400

14000 S-1

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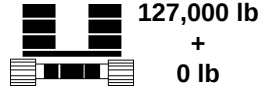
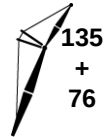


144.4 ft

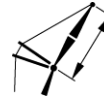


170.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
60	74.2	315.6	34,800 *							60
65	72.5	314.1	34,000 *							65
70	70.7	312.5	32,700 *							70
75	68.9	310.6	31,400 *							75
80	67.1	308.6	30,100 *	70.7	311.4	32,700 *				80
85	65.2	306.4	28,800 *	68.9	309.6	31,400 *				85
90	63.4	304.0	27,500 *	67.1	307.6	30,100 *				90
95	61.5	301.4	26,300 *	65.2	305.4	28,900 *	68.0	307.4	30,500 *	95
100	59.5	298.5	25,100 *	63.4	303.0	27,600 *	66.2	305.2	29,100	100
105	57.6	295.5	23,900 *	61.5	300.4	26,400 *	64.3	302.9	27,200	105
110	55.5	292.2	22,800 *	59.5	297.5	25,200 *	62.4	300.4	25,500	110
115	53.5	288.6	21,600 *	57.6	294.5	24,100 *	60.5	297.7	24,000	115
120	51.3	284.8	20,600 *	55.5	291.2	22,900 *	58.5	294.8	22,600	120
125	49.1	280.6	19,600 *	53.5	287.6	21,800 *	56.5	291.6	21,300	125
130	46.9	276.1	18,600 *	51.3	283.8	20,700 *	54.5	288.2	20,100	130
135	44.5	271.2	17,600 *	49.2	279.6	19,700 *	52.4	284.5	19,000	135
140	42.1	265.9	16,700 *	46.9	275.1	18,700 *	50.2	280.5	18,000	140
145	39.5	260.1	15,800 *	44.5	270.2	17,700 *	48.0	276.1	17,100	145
150	36.8	253.8	15,000 *	42.1	264.9	16,800 *	45.7	271.4	16,200	150
155	33.8	246.7	14,200 *	39.5	259.1	15,900 *	43.3	266.4	15,400	155
160	30.7	238.8	13,400 *	36.8	252.7	15,100 *	40.8	260.8	14,600	160
165	27.2	229.7	12,500 *	33.9	245.7	14,300 *	38.1	254.7	13,900	165
170	23.2	219.1	11,600 *	30.7	237.8	13,500 *	35.3	248.0	13,300	170
175	18.5	206.0	10,800 *	27.2	228.7	12,600 *	32.3	240.6	12,600	175
180	12.1	187.8	10,100 *	23.3	218.1	11,700 *	29.0	232.1	12,000	180
185				18.5	205.1	10,800 *	25.3	222.4	11,500	185
190				12.2	186.8	10,100 *	21.0	210.6	10,900	190
195							15.6	195.5	10,400	195
200							7.0	170.6	9,800 *	200
205										205
210										210



144.4 ft

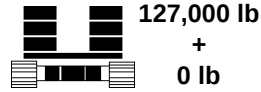
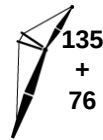


170.0 ft

	75°		
ft			
60			
65			
70			
75			
80			
85			
90			
95			
100			
105			
110			
115			
120			
125	61.4	296.0	18,400
130	59.4	293.2	17,300
135	57.4	290.1	16,300
140	55.4	286.8	15,400
145	53.4	283.2	14,600
150	51.2	279.4	13,800
155	49.0	275.2	13,100
160	46.8	270.7	12,400
165	44.4	265.8	11,800
170	41.9	260.4	11,200
175	39.3	254.6	10,600
180	36.6	248.2	10,100
185	33.7	241.1	9,600
190	30.5	233.1	9,100
195	27.0	224.0	8,600
200	23.0	213.3	8,200
205	18.2	200.0	7,800
210	11.7	181.3	7,400

14000 S-1

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154.2 ft



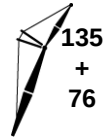
70.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
34	73.7	229.0	91,300 *d							34
36	72.0	228.4	91,300 *d							36
38	70.2	227.7	91,200 *c							38
40	68.5	227.0	91,200 *c							40
45	64.0	224.8	90,400 *c							45
50	59.3	222.1	84,000 *b	69.1	226.1	81,000 c				50
55	54.5	218.8	77,500 b	64.6	224.0	71,500 c				55
60	49.3	214.9	69,300 b	60.0	221.4	64,000 b	67.3	224.0	60,000 c	60
65	43.6	210.1	62,600	55.2	218.2	57,800 b	62.8	221.7	54,100 b	65
70	37.3	204.3	57,000	50.0	214.4	52,600 b	58.1	218.9	49,200 b	70
75	29.9	196.7	52,200	44.4	209.8	48,100	53.1	215.4	45,100 b	75
80	20.2	186.1	48,000	38.2	204.1	44,300	47.8	211.3	41,500	80
85				31.0	196.9	41,000	42.0	206.3	38,400	85
90				21.8	186.8	38,000	35.5	200.1	35,700	90
95				1.5	162.6	35,300	27.6	191.9	33,200	95
100							16.8	179.7	31,000	100
105										105
110										110
115										115
120										120
125										125
130										130
135										135
140										140



ANSI B30.5

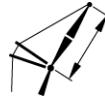
14000 S-1



127,000 lb
+
0 lb

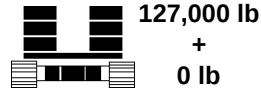
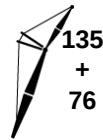


154.2 ft



70.0 ft

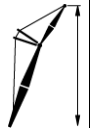
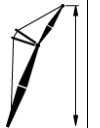
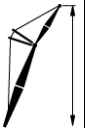
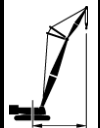
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	61.0	217.6	36,800 b							80
85	56.2	214.5	34,100 b							85
90	51.1	210.9	31,600 b							90
95	45.7	206.4	29,400							95
100	39.6	201.0	27,500	54.0	208.7	24,000 b				100
105	32.7	194.1	25,800	48.8	204.7	22,400				105
110	24.1	184.9	24,100	43.1	199.9	21,000				110
115	10.1	168.6	22,600	36.7	193.9	19,800	51.3	201.4	16,800 b	115
120				29.1	186.2	18,600	45.8	197.0	15,800	120
125				19.1	175.0	17,500	39.8	191.6	14,900	125
130							32.9	184.8	14,000	130
135							24.3	175.6	13,200	135
140							10.6	159.7	12,400	140



154.2 ft



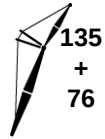
80.0 ft

	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36	74.3	238.9	84,200 *d							36
38	72.8	238.3	84,100 *c							38
40	71.3	237.6	84,000 *c							40
45	67.4	235.7	83,800 *c							45
50	63.5	233.4	81,500 *b							50
55	59.4	230.7	76,100 *b	68.0	234.9	71,200 c				55
60	55.2	227.5	69,100	64.1	232.7	63,600 b				60
65	50.7	223.7	62,400	60.0	230.1	57,400 b	66.4	232.8	53,700 b	65
70	45.9	219.3	56,800	55.8	226.9	52,300 b	62.4	230.4	48,900 b	70
75	40.7	214.0	52,000	51.3	223.2	47,900	58.3	227.5	44,700 b	75
80	34.8	207.5	47,900	46.6	218.9	44,100	54.0	224.2	41,200	80
85	27.9	199.3	44,300	41.4	213.7	40,800	49.4	220.2	38,100	85
90	18.9	187.8	41,100	35.7	207.4	37,900	44.6	215.6	35,400	90
95				29.0	199.5	35,300	39.2	210.0	33,000	95
100				20.4	188.7	33,000	33.1	203.1	30,800	100
105				1.4	162.7	30,700	25.8	194.3	28,900	105
110							15.7	181.1	27,100	110
115										115
120										120
125										125
130										130
135										135
140										140
145										145
150										150



ANSI B30.5

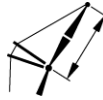
14000 S-1



127,000 lb
+
0 lb

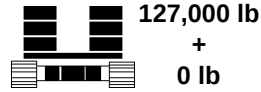
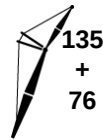


154.2 ft



80.0 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	60.9	226.2	33,600 b							85
90	56.7	223.2	31,200 b							90
95	52.3	219.6	29,100							95
100	47.6	215.4	27,200							100
105	42.6	210.5	25,400	54.8	217.5	22,000				105
110	37.0	204.4	23,900	50.3	213.6	20,600				110
115	30.5	197.0	22,400	45.4	209.1	19,400				115
120	22.5	186.9	21,100	40.1	203.7	18,200	52.4	210.2	15,400	120
125	9.4	169.4	19,800	34.2	197.1	17,200	47.7	206.0	14,500	125
130				27.2	188.7	16,200	42.7	201.0	13,600	130
135				17.9	176.6	15,300	37.1	195.1	12,800	135
140							30.7	187.6	12,100	140
145							22.7	177.7	11,400	145
150							10.0	160.6	10,700	150



154.2 ft



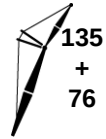
90.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
38	74.7	248.7	76,900 *c							38
40	73.4	248.1	76,800 *c							40
45	70.1	246.5	76,500 *c							45
50	66.6	244.5	76,100 *b							50
55	63.1	242.1	73,200 *b	70.5	245.6	71,000 c				55
60	59.5	239.4	68,900 b	67.1	243.7	63,400 b				60
65	55.7	236.2	62,200	63.6	241.4	57,200 b				65
70	51.8	232.6	56,600	60.0	238.7	52,100 b	65.7	241.5	48,600 b	70
75	47.6	228.3	51,900	56.3	235.6	47,700	62.2	239.0	44,500 b	75
80	43.1	223.4	47,800	52.3	232.0	43,900	58.5	236.2	41,000	80
85	38.2	217.6	44,200	48.2	227.9	40,600	54.7	232.9	37,900	85
90	32.8	210.6	41,100	43.8	223.0	37,700	50.7	229.1	35,200	90
95	26.3	201.7	38,300	39.0	217.4	35,200	46.4	224.7	32,800	95
100	17.8	189.4	35,800	33.6	210.5	32,900	41.9	219.5	30,700	100
105				27.3	202.0	30,800	36.9	213.4	28,700	105
110				19.2	190.4	29,000	31.2	206.0	27,000	110
115				1.3	162.8	27,100	24.3	196.5	25,400	115
120							14.8	182.4	23,900	120
125										125
130										130
135										135
140										140
145										145
150										150
155										155
160										160



ANSI B30.5

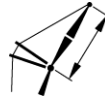
14000 S-1



127,000 lb
+
0 lb



154.2 ft

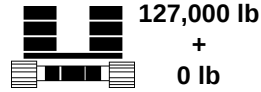
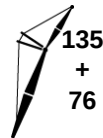


90.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	60.8	234.9	31,000 lb							90
95	57.1	231.9	28,800							95
100	53.2	228.4	26,900							100
105	49.1	224.4	25,200							105
110	44.7	219.7	23,700	55.4	226.2	20,400				110
115	40.0	214.2	22,300	51.4	222.4	19,100				115
120	34.8	207.7	21,000	47.2	218.1	18,000				120
125	28.7	199.6	19,800	42.7	213.1	17,000				125
130	21.2	188.9	18,700	37.8	207.2	16,000	49.2	214.9	13,400	130
135	8.9	170.2	17,600	32.2	200.1	15,100	44.9	210.3	12,600	135
140				25.6	191.0	14,300	40.1	204.8	11,900	140
145				16.8	178.2	13,500	34.9	198.3	11,200	145
150							28.9	190.3	10,600	150
155							21.4	179.6	10,000	155
160							9.4	161.5	9,400	160

14000 S-1

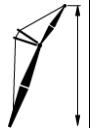
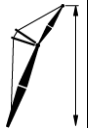
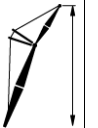
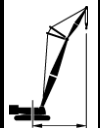
ANSI B30.5



154.2 ft



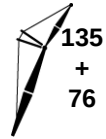
100.0 ft

	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45	72.1	257.0	70,400 *c							45
50	69.1	255.3	70,000 *b							50
55	66.0	253.2	68,300 *b							55
60	62.8	250.8	65,600 *	69.5	254.4	63,100 b				60
65	59.5	248.1	62,000	66.4	252.4	56,900 b				65
70	56.2	244.9	56,400	63.3	250.1	51,700 b				70
75	52.6	241.3	51,600	60.0	247.4	47,300	65.2	250.2	44,100 b	75
80	48.9	237.3	47,600	56.6	244.3	43,600	62.0	247.7	40,600	80
85	45.0	232.6	44,000	53.1	240.8	40,300	58.7	244.9	37,500	85
90	40.8	227.2	40,900	49.5	236.8	37,400	55.2	241.6	34,800	90
95	36.2	220.9	38,200	45.6	232.2	34,900	51.7	237.9	32,500	95
100	31.0	213.4	35,700	41.4	226.9	32,600	47.9	233.7	30,300	100
105	24.9	204.0	33,500	36.9	220.8	30,600	43.9	228.8	28,400	105
110	16.9	190.9	31,400	31.8	213.5	28,800	39.6	223.2	26,700	110
115				25.9	204.4	27,100	34.9	216.7	25,100	115
120				18.2	192.1	25,500	29.5	208.7	23,700	120
125				1.2	162.9	24,000	23.1	198.6	22,400	125
130							14.0	183.7	21,100	130
135										135
140										140
145										145
150										150
155										155
160										160
165										165
170										170



ANSI B30.5

14000 S-1



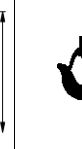
127,000 lb
+
0 lb

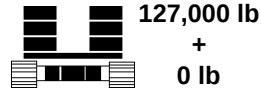
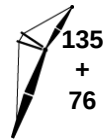


154.2 ft



100.0 ft

	75°			70°			65°			
										
	ft	°	ft	lb	ft	°	ft	lb	ft	°
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	60.7	243.6	28,400							95
100	57.4	240.6	26,500							100
105	53.9	237.1	24,800							105
110	50.3	233.2	23,300							110
115	46.4	228.8	21,900	55.8	234.9	18,700				115
120	42.3	223.7	20,600	52.3	231.2	17,600				120
125	37.9	217.8	19,500	48.6	227.1	16,600				125
130	32.9	210.7	18,400	44.6	222.4	15,600				130
135	27.2	202.1	17,400	40.4	216.9	14,800	50.4	223.8	12,200	135
140	20.1	190.7	16,400	35.8	210.6	13,900	46.5	219.4	11,500	140
145	8.4	171.0	15,500	30.5	202.9	13,200	42.4	214.3	10,800	145
150				24.3	193.2	12,500	38.0	208.4	10,200	150
155				16.0	179.6	11,800	33.1	201.4	9,600	155
160							27.4	192.8	9,100	160
165							20.3	181.5	8,500	165
170							8.9	162.3	8,000	170



154.2 ft



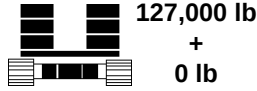
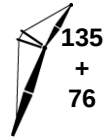
110.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	73.8	267.5	65,000 *c							45
50	71.1	265.9	64,700 *b							50
55	68.3	264.0	63,500 *b							55
60	65.5	261.9	61,500 *							60
65	62.6	259.5	59,500 *	68.7	263.2	56,800 b				65
70	59.6	256.7	56,300	65.9	261.1	51,600				70
75	56.5	253.6	51,600	63.0	258.7	47,300	67.5	261.1	44,000 b	75
80	53.3	250.1	47,500	60.0	256.0	43,500	64.7	258.9	40,500	80
85	50.0	246.1	44,000	57.0	253.0	40,200	61.8	256.4	37,500	85
90	46.5	241.7	40,900	53.8	249.5	37,400	58.8	253.5	34,800	90
95	42.8	236.6	38,100	50.5	245.6	34,900	55.7	250.3	32,400	95
100	38.8	230.8	35,700	47.0	241.2	32,600	52.5	246.7	30,300	100
105	34.5	224.1	33,500	43.4	236.3	30,600	49.1	242.6	28,400	105
110	29.6	216.1	31,500	39.4	230.6	28,800	45.6	238.0	26,700	110
115	23.7	206.1	29,700	35.1	224.0	27,100	41.8	232.8	25,100	115
120	16.1	192.4	28,000	30.3	216.2	25,600	37.7	226.7	23,700	120
125				24.6	206.6	24,200	33.2	219.7	22,400	125
130				17.4	193.6	22,900	28.1	211.3	21,200	130
135				1.2	163.0	21,600	22.0	200.6	20,100	135
140							13.4	184.9	19,000	140
145										145
150										150
155										155
160										160
165										165



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14000 S-1

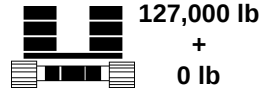
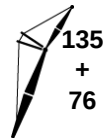


154.2 ft



110.0 ft

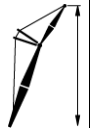
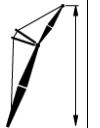
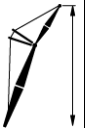
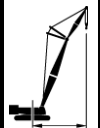
	75°			70°			
ft	ft	ft	lb	ft	ft	lb	ft
45							45
50							50
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100	60.6	252.2	26,500				100
105	57.6	249.2	24,800				105
110	54.5	245.9	23,200				110
115	51.2	242.1	21,900				115
120	47.8	237.8	20,600	56.2	243.6	17,500	120
125	44.2	233.0	19,400	53.0	240.0	16,500	125
130	40.3	227.5	18,400	49.7	236.0	15,600	130
135	36.1	221.1	17,400	46.2	231.5	14,700	135
140	31.4	213.6	16,500	42.5	226.4	13,900	140
145	25.9	204.5	15,600	38.4	220.5	13,200	145
150	19.1	192.4	14,800	34.0	213.7	12,500	150
155	8.0	171.7	14,000	29.1	205.6	11,800	155
160				23.1	195.4	11,200	160
165				15.2	181.0	10,600	165



154.2 ft



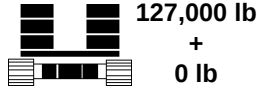
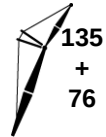
120.0 ft

	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50	72.7	276.4	49,600 *b							50
55	70.2	274.7	48,600 *b							55
60	67.6	272.8	47,800 *							60
65	65.0	270.6	47,000 *	70.5	273.9	49,000 *b				65
70	62.4	268.1	46,200 *	68.0	272.0	48,300 *				70
75	59.6	265.4	45,400 *	65.4	269.9	46,900				75
80	56.8	262.3	44,700 *	62.7	267.4	43,200	66.9	269.9	40,100	80
85	53.9	258.8	43,700	60.0	264.7	39,900	64.3	267.6	37,100	85
90	50.9	255.0	40,600	57.2	261.6	37,100	61.6	265.0	34,400	90
95	47.7	250.7	37,900	54.3	258.2	34,500	58.9	262.2	32,000	95
100	44.4	245.9	35,500	51.3	254.4	32,300	56.1	259.0	29,900	100
105	40.9	240.4	33,300	48.2	250.2	30,300	53.1	255.4	28,100	105
110	37.1	234.3	31,300	44.9	245.5	28,500	50.1	251.5	26,300	110
115	33.0	227.1	29,500	41.4	240.2	26,800	46.9	247.1	24,800	115
120	28.3	218.7	27,900	37.7	234.1	25,300	43.5	242.1	23,400	120
125	22.7	208.2	26,300	33.6	227.1	23,900	39.9	236.5	22,100	125
130	15.4	193.7	24,900	29.0	218.9	22,700	36.1	230.1	20,900	130
135				23.6	208.8	21,500	31.8	222.6	19,800	135
140				16.6	195.1	20,400	26.9	213.7	18,800	140
145				1.1	163.1	19,200	21.0	202.5	17,800	145
150							12.8	186.1	16,900	150
155										155
160										160
165										165
170										170
175										175



ANSI B30.5

14000 S-1

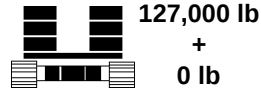
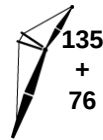


154.2 ft



120.0 ft

	75°			70°			
ft	ft	ft	lb	ft	ft	lb	ft
50							50
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105	60.6	260.9	24,400				105
110	57.8	257.9	22,900				110
115	54.9	254.6	21,500				115
120	52.0	250.9	20,200				120
125	48.9	246.7	19,100	56.5	252.2	16,100	125
130	45.6	242.1	18,000	53.6	248.7	15,200	130
135	42.2	236.9	17,100	50.6	244.9	14,300	135
140	38.5	231.0	16,200	47.4	240.5	13,500	140
145	34.5	224.3	15,300	44.1	235.6	12,800	145
150	30.0	216.4	14,500	40.6	230.2	12,100	150
155	24.8	206.7	13,800	36.8	223.9	11,500	155
160	18.3	194.1	13,100	32.6	216.7	10,900	160
165	7.7	172.4	12,400	27.8	208.1	10,300	165
170				22.1	197.4	9,700	170
175				14.6	182.3	9,200	175



154.2 ft



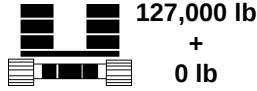
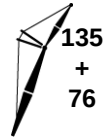
130.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	ft	lb	ft	
50	74.1	286.9	46,600 *b							50
55	71.8	285.3	45,800 *b							55
60	69.4	283.6	45,000 *							60
65	67.1	281.6	44,300 *							65
70	64.6	279.3	43,600 *	69.8	282.7	45,300 *				70
75	62.2	276.8	42,900 *	67.4	280.8	44,700 *				75
80	59.7	274.0	42,300 *	65.0	278.6	42,900				80
85	57.1	271.0	41,100 *	62.5	276.1	39,700	66.4	278.6	36,800	85
90	54.4	267.5	39,700 *	60.0	273.4	36,800	64.0	276.3	34,100	90
95	51.6	263.8	37,700	57.4	270.3	34,300	61.5	273.7	31,800	95
100	48.8	259.6	35,300	54.8	267.0	32,100	59.0	270.9	29,700	100
105	45.8	255.0	33,100	52.0	263.2	30,100	56.4	267.7	27,800	105
110	42.6	249.9	31,100	49.2	259.1	28,200	53.7	264.2	26,100	110
115	39.2	244.1	29,300	46.2	254.6	26,600	50.9	260.3	24,600	115
120	35.6	237.6	27,700	43.1	249.5	25,100	48.0	256.0	23,200	120
125	31.6	230.0	26,200	39.7	243.9	23,700	44.9	251.3	21,900	125
130	27.1	221.2	24,800	36.1	237.4	22,500	41.7	246.0	20,700	130
135	21.8	210.2	23,600	32.2	230.1	21,300	38.3	240.0	19,600	135
140	14.8	195.1	22,400	27.8	221.4	20,200	34.6	233.3	18,600	140
145				22.6	210.8	19,200	30.5	225.4	17,700	145
150				16.0	196.6	18,300	25.8	216.1	16,800	150
155				1.1	163.2	17,300	20.2	204.3	16,000	155
160							12.3	187.2	15,200	160
165										165
170										170
175										175
180										180
185										185



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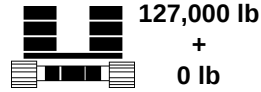
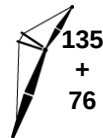


154.2 ft



130.0 ft

	75°			70°			
ft	ft	ft	lb	ft	ft	lb	ft
50							50
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110	60.5	269.5	22,600				110
115	58.0	266.6	21,200				115
120	55.3	263.3	20,000				120
125	52.6	259.6	18,800				125
130	49.8	255.6	17,800	56.8	260.9	14,900	130
135	46.8	251.2	16,800	54.1	257.5	14,100	135
140	43.7	246.2	15,900	51.4	253.7	13,300	140
145	40.5	240.7	15,100	48.5	249.5	12,500	145
150	36.9	234.4	14,300	45.5	244.8	11,900	150
155	33.1	227.3	13,600	42.3	239.6	11,200	155
160	28.8	219.0	12,900	38.9	233.8	10,600	160
165	23.8	208.9	12,300	35.3	227.2	10,100	165
170	17.6	195.6	11,600	31.2	219.5	9,500	170
175	7.4	173.1	11,000	26.7	210.5	9,000	175
180				21.3	199.3	8,600	180
185				14.0	183.5	8,100	185

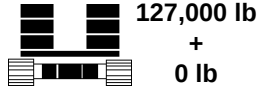
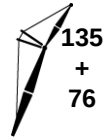


154.2 ft

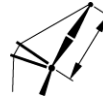


140.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55	73.1	295.8	43,000 *b							55
60	71.0	294.2	42,200 *							60
65	68.8	292.4	41,500 *							65
70	66.6	290.3	40,900 *							70
75	64.3	288.0	40,300 *	69.1	291.5	41,700 *				75
80	62.0	285.5	39,000 *	66.9	289.5	41,200 *				80
85	59.7	282.7	37,500 *	64.6	287.3	39,400				85
90	57.3	279.6	36,100 *	62.3	284.8	36,500	66.0	287.3	33,800	90
95	54.8	276.3	34,700 *	60.0	282.0	34,000	63.7	285.0	31,400	95
100	52.3	272.6	33,400 *	57.6	279.0	31,800	61.4	282.4	29,300	100
105	49.6	268.5	32,100 *	55.2	275.7	29,700	59.0	279.5	27,500	105
110	46.9	264.0	30,900	52.6	272.0	27,900	56.6	276.4	25,800	110
115	44.0	259.1	29,100	50.0	268.0	26,300	54.1	272.9	24,200	115
120	41.0	253.7	27,400	47.3	263.6	24,800	51.6	269.1	22,800	120
125	37.8	247.6	26,000	44.4	258.8	23,400	48.9	265.0	21,600	125
130	34.3	240.7	24,600	41.4	253.4	22,200	46.1	260.4	20,400	130
135	30.5	232.8	23,300	38.2	247.4	21,000	43.2	255.3	19,300	135
140	26.1	223.5	22,200	34.8	240.6	20,000	40.1	249.7	18,300	140
145	21.0	212.1	21,100	31.0	232.9	19,000	36.9	243.4	17,400	145
150	14.3	196.3	20,000	26.8	223.9	18,000	33.3	236.3	16,500	150
155				21.8	212.8	17,100	29.4	228.1	15,700	155
160				15.4	197.9	16,300	24.9	218.3	14,900	160
165				1.0	163.3	15,400	19.5	206.1	14,200	165
170							11.9	188.2	13,500	170
175										175
180										180
185										185

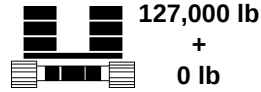
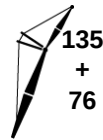


154.2 ft



140.0 ft

	75°		
	ft	ft	lb
55			
60			
65			
70			
75			
80			
85			
90			
95			
100			
105			
110	62.8	280.9	22,200
115	60.5	278.2	20,800
120	58.1	275.2	19,600
125	55.7	272.0	18,400
130	53.2	268.4	17,400
135	50.6	264.5	16,400
140	47.9	260.2	15,600
145	45.0	255.4	14,700
150	42.1	250.2	14,000
155	38.9	244.3	13,200
160	35.5	237.7	12,600
165	31.9	230.2	11,900
170	27.7	221.5	11,300
175	22.9	210.9	10,800
180	16.9	197.2	10,200
185	7.1	173.7	9,700

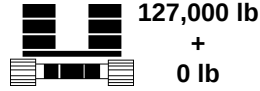
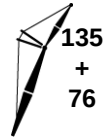


154.2 ft

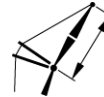


150.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55	74.3	306.2	40,300 *b							55
60	72.3	304.7	39,600 *							60
65	70.3	303.0	39,000 *							65
70	68.2	301.1	38,300 *							70
75	66.1	299.0	37,200 *	70.5	302.2	39,000 *				75
80	64.0	296.7	35,900 *	68.5	300.3	38,500 *				80
85	61.9	294.1	34,500 *	66.4	298.2	37,500 *				85
90	59.7	291.4	33,200 *	64.3	296.0	36,200 *	67.7	298.2	33,700	90
95	57.5	288.3	31,900 *	62.2	293.4	33,900	65.6	296.0	31,300	95
100	55.2	285.0	30,500 *	60.0	290.7	31,600	63.5	293.6	29,200	100
105	52.8	281.3	29,300 *	57.8	287.7	29,600	61.3	291.0	27,300	105
110	50.4	277.4	28,100 *	55.5	284.4	27,800	59.1	288.2	25,600	110
115	47.8	273.0	27,000 *	53.1	280.8	26,200	56.9	285.0	24,100	115
120	45.2	268.3	25,900 *	50.7	276.9	24,700	54.5	281.6	22,700	120
125	42.4	263.1	24,800 *	48.2	272.6	23,300	52.2	277.9	21,500	125
130	39.5	257.3	23,700 *	45.6	267.9	22,100	49.7	273.9	20,300	130
135	36.4	250.9	22,800 *	42.8	262.8	20,900	47.2	269.4	19,200	135
140	33.1	243.7	21,800 *	40.0	257.1	19,900	44.5	264.6	18,200	140
145	29.4	235.5	21,000 *	36.9	250.8	18,900	41.7	259.2	17,300	145
150	25.2	225.8	20,000	33.6	243.7	18,000	38.7	253.3	16,400	150
155	20.3	213.9	19,100	29.9	235.6	17,100	35.6	246.7	15,600	155
160	13.8	197.6	18,200	25.9	226.2	16,300	32.1	239.2	14,900	160
165				21.1	214.7	15,500	28.3	230.7	14,100	165
170				14.9	199.2	14,800	24.0	220.5	13,500	170
175				1.0	163.4	14,000	18.8	207.7	12,800	175
180							11.5	189.2	12,200	180
185										185
190										190
195										195



154.2 ft

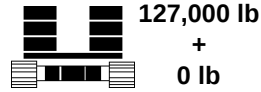
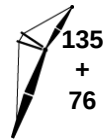


150.0 ft

	75°		
	ft	ft	lb
55			
60			
65			
70			
75			
80			
85			
90			
95			
100			
105			
110			
115	62.6	289.6	20,700
120	60.5	286.9	19,500
125	58.3	283.9	18,300
130	56.0	280.7	17,300
135	53.6	277.1	16,300
140	51.2	273.3	15,500
145	48.7	269.1	14,600
150	46.1	264.5	13,900
155	43.4	259.5	13,200
160	40.6	253.9	12,500
165	37.6	247.8	11,900
170	34.3	240.9	11,300
175	30.7	233.0	10,700
180	26.8	223.9	10,200
185	22.2	212.9	9,700
190	16.4	198.6	9,200
195	6.9	174.3	8,700

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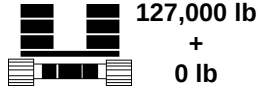
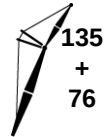


154.2 ft

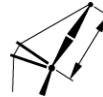


160.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
60	73.4	315.2	36,900 *							60
65	71.5	313.6	36,200 *							65
70	69.6	311.9	35,400 *							70
75	67.7	309.9	34,000 *							75
80	65.8	307.7	32,700 *	69.9	311.0	35,500 *				80
85	63.8	305.4	31,400 *	68.0	309.1	34,200 *				85
90	61.8	302.8	30,000 *	66.0	307.0	32,900 *				90
95	59.7	300.0	28,800 *	64.1	304.6	31,600 *	67.2	306.9	30,900	95
100	57.6	297.0	27,500 *	62.1	302.1	30,400 *	65.2	304.7	28,900	100
105	55.5	293.7	26,300 *	60.0	299.3	29,100 *	63.3	302.3	27,000	105
110	53.3	290.1	25,100 *	57.9	296.3	27,500	61.2	299.7	25,300	110
115	51.0	286.2	24,000 *	55.8	293.1	25,900	59.2	296.8	23,800	115
120	48.7	282.0	22,900 *	53.6	289.5	24,400	57.1	293.7	22,400	120
125	46.2	277.4	21,800 *	51.3	285.7	23,000	54.9	290.4	21,100	125
130	43.7	272.4	20,800 *	49.0	281.5	21,800	52.7	286.7	20,000	130
135	41.0	266.9	19,800 *	46.6	277.0	20,600	50.4	282.7	18,900	135
140	38.2	260.9	18,900 *	44.1	272.0	19,600	48.0	278.4	17,900	140
145	35.2	254.2	18,000 *	41.4	266.6	18,600	45.6	273.7	17,000	145
150	32.0	246.6	17,200 *	38.6	260.7	17,700	43.0	268.6	16,100	150
155	28.4	238.1	16,400 *	35.7	254.1	16,800	40.3	263.0	15,300	155
160	24.4	228.0	15,700 *	32.5	246.7	16,000	37.5	256.8	14,600	160
165	19.6	215.6	15,000 *	29.0	238.3	15,300	34.4	249.9	13,900	165
170	13.3	198.8	14,400 *	25.0	228.4	14,500	31.1	242.1	13,200	170
175				20.4	216.5	13,900	27.4	233.2	12,600	175
180				14.4	200.5	13,200	23.2	222.6	12,000	180
185				1.0	163.5	12,500	18.2	209.4	11,400	185
190							11.1	190.2	10,800	190
195										195
200										200
205										205



154.2 ft

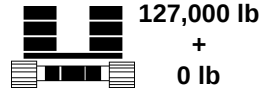
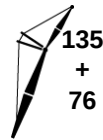


160.0 ft

	75°		
	ft	ft	lb
60			
65			
70			
75			
80			
85			
90			
95			
100			
105			
110			
115			
120	62.5	298.2	19,100
125	60.4	295.5	17,900
130	58.4	292.6	16,900
135	56.2	289.4	16,000
140	54.1	285.9	15,100
145	51.8	282.1	14,300
150	49.5	278.0	13,500
155	47.1	273.5	12,800
160	44.6	268.7	12,100
165	42.0	263.4	11,500
170	39.2	257.6	10,900
175	36.3	251.1	10,400
180	33.2	243.9	9,900
185	29.7	235.7	9,400
190	25.9	226.3	8,900
195	21.4	214.9	8,400
200	15.8	200.0	8,000
205	6.7	174.9	7,500

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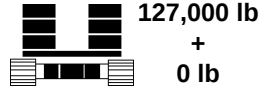
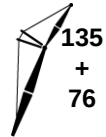


154.2 ft

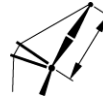


170.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
60	74.4	325.6	34,300 *							60
65	72.7	324.1	33,700 *							65
70	70.9	322.5	32,600 *							70
75	69.1	320.6	31,300 *							75
80	67.3	318.6	30,000 *							80
85	65.4	316.5	28,800 *	69.3	319.8	31,500 *				85
90	63.6	314.1	27,500 *	67.5	317.9	30,200 *				90
95	61.7	311.5	26,300 *	65.7	315.7	29,000 *				95
100	59.7	308.7	25,100 *	63.8	313.3	27,800 *	66.8	315.7	28,600	100
105	57.8	305.6	24,000 *	61.9	310.8	26,600 *	64.9	313.5	26,700	105
110	55.7	302.4	22,800 *	60.0	308.0	25,400 *	63.1	311.0	25,000	110
115	53.7	298.8	21,700 *	58.0	305.0	24,300 *	61.2	308.4	23,500	115
120	51.6	295.0	20,700 *	56.0	301.7	23,100 *	59.2	305.5	22,100	120
125	49.4	290.9	19,600 *	54.0	298.2	22,000 *	57.2	302.4	20,900	125
130	47.1	286.4	18,700 *	51.9	294.5	20,900 *	55.2	299.0	19,700	130
135	44.8	281.6	17,700 *	49.7	290.4	20,000 *	53.1	295.4	18,600	135
140	42.3	276.3	16,800 *	47.4	286.0	18,900 *	51.0	291.5	17,600	140
145	39.8	270.6	16,000 *	45.1	281.2	18,000 *	48.8	287.3	16,700	145
150	37.0	264.3	15,100 *	42.7	276.0	17,100 *	46.5	282.8	15,900	150
155	34.2	257.3	14,300 *	40.1	270.3	16,200 *	44.1	277.8	15,100	155
160	31.0	249.5	13,500 *	37.4	264.1	15,400 *	41.7	272.5	14,300	160
165	27.6	240.6	12,600 *	34.6	257.2	14,600 *	39.1	266.6	13,600	165
170	23.7	230.1	11,700 *	31.5	249.5	13,800 *	36.3	260.1	13,000	170
175	19.1	217.4	10,900 *	28.1	240.8	12,800 *	33.3	252.9	12,300	175
180	12.9	199.9	10,100 *	24.3	230.6	11,900 *	30.1	244.8	11,800	180
185				19.8	218.3	11,000 *	26.6	235.6	11,200	185
190				14.0	201.8	10,300 *	22.5	224.6	10,700	190
195				0.9	163.6	9,700 *	17.6	210.9	10,200	195
200							10.8	191.2	9,700	200
205										205
210										210
215										215

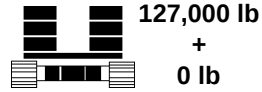
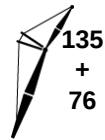


154.2 ft



170.0 ft

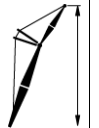
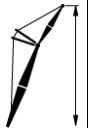
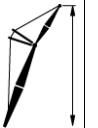
	75°		
	ft	ft	lb
60			
65			
70			
75			
80			
85			
90			
95			
100			
105			
110			
115			
120			
125	62.3	306.9	17,700
130	60.4	304.2	16,600
135	58.5	301.2	15,700
140	56.5	298.0	14,800
145	54.4	294.6	14,000
150	52.3	290.9	13,300
155	50.2	286.9	12,500
160	47.9	282.5	11,900
165	45.6	277.8	11,300
170	43.2	272.7	10,700
175	40.7	267.2	10,100
180	38.0	261.1	9,600
185	35.2	254.3	9,100
190	32.2	246.8	8,700
195	28.8	238.3	8,200
200	25.1	228.5	7,800
205	20.8	216.7	7,400
210	15.4	201.4	7,000
215	6.5	175.5	6,600



164.0 ft



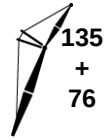
70.0 ft

	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34	74.1	239.0	88,200 *d							34
36	72.4	238.4	88,100 *d							36
38	70.7	237.7	88,100 *c							38
40	68.9	237.0	88,000 *c							40
45	64.5	234.9	87,300 *c							45
50	59.8	232.2	81,200 *b	70.1	236.4	80,200 c				50
55	55.0	229.0	75,700 *b	65.7	234.3	70,900 c				55
60	49.8	225.2	69,200 b	61.1	231.8	63,400 b				60
65	44.2	220.5	62,400	56.4	228.8	57,200 b	64.3	232.2	53,300 c	65
70	38.0	214.8	56,800	51.3	225.1	52,100 b	59.7	229.6	48,500 b	70
75	30.7	207.4	52,000	45.8	220.7	47,700	54.8	226.4	44,400 b	75
80	21.4	197.2	47,900	39.8	215.3	43,900	49.7	222.5	40,900 b	80
85				32.9	208.5	40,600	44.1	217.8	37,800	85
90				24.3	199.4	37,700	37.8	212.1	35,100	90
95				10.7	183.6	35,000	30.5	204.7	32,700	95
100							21.1	194.4	30,500	100
105										105
110										110
115										115
120										120
125										125
130										130
135										135
140										140
145										145



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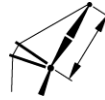
14000 S-1



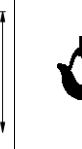
127,000 lb
+
0 lb

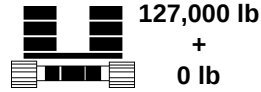
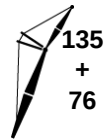


164.0 ft



70.0 ft

	75°			70°			65°			
										
	ft	°	ft	lb	°	ft	lb	°	ft	lb
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	58.7	225.7	33,100 b							85
90	53.8	222.3	30,700 b							90
95	48.5	218.3	28,600 b							95
100	42.8	213.4	26,700	57.3	220.3	22,900 b				100
105	36.4	207.4	25,000	52.3	216.8	21,400 b				105
110	28.7	199.5	23,500	47.0	212.5	20,100				110
115	18.5	188.1	22,000	41.1	207.3	18,800				115
120				34.4	200.9	17,700	50.4	209.6	14,700 b	120
125				26.2	192.3	16,700	44.8	205.1	13,800	125
130				14.5	178.8	15,700	38.7	199.5	13,000	130
135							31.6	192.4	12,200	135
140							22.6	182.6	11,500	140
145							5.8	162.8	10,700	145



164.0 ft



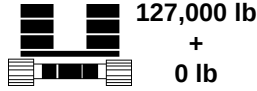
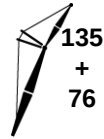
80.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
36	74.7	248.8	81,400 *d							36
38	73.2	248.2	81,400 *c							38
40	71.7	247.6	81,200 *c							40
45	67.8	245.8	81,000 *c							45
50	63.9	243.5	78,800 *b							50
55	59.9	240.9	73,700 *b	68.9	245.2	70,500 c				55
60	55.6	237.7	68,900 b	65.0	243.1	63,000 b				60
65	51.2	234.0	62,200	61.0	240.5	56,900 b	67.7	243.2	52,900 c	65
70	46.4	229.6	56,600	56.8	237.5	51,700 b	63.8	240.9	48,100 b	70
75	41.2	224.4	51,900	52.4	233.9	47,400	59.8	238.2	44,000 b	75
80	35.4	218.1	47,800	47.8	229.8	43,600	55.5	235.1	40,500 b	80
85	28.7	210.1	44,200	42.7	224.8	40,400	51.0	231.4	37,500	85
90	20.0	199.1	41,000	37.1	218.8	37,500	46.3	226.9	34,800	90
95				30.7	211.4	34,900	41.1	221.7	32,400	95
100				22.7	201.5	32,600	35.3	215.4	30,300	100
105				10.0	184.5	30,500	28.5	207.3	28,400	105
110							19.7	196.2	26,600	110
115										115
120										120
125										125
130										130
135										135
140										140
145										145
150										150
155										155

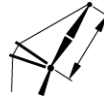


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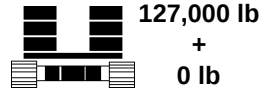
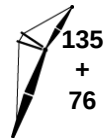


164.0 ft



80.0 ft

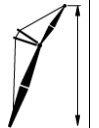
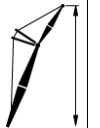
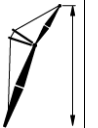
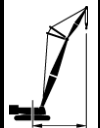
	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	63.0	237.1	32,600 b							85
90	58.9	234.3	30,300 b							90
95	54.6	231.0	28,200							95
100	50.0	227.2	26,300							100
105	45.2	222.6	24,700	57.7	229.0	21,000 b				105
110	39.9	217.2	23,100	53.3	225.5	19,600				110
115	33.9	210.5	21,800	48.7	221.5	18,400				115
120	26.9	202.0	20,500	43.8	216.7	17,300				120
125	17.3	189.7	19,300	38.3	210.9	16,300	51.7	218.4	13,400	125
130				32.1	203.9	15,400	46.9	214.1	12,600	130
135				24.5	194.6	14,500	41.8	209.0	11,800	135
140				13.5	180.1	13,600	36.1	202.9	11,200	140
145							29.5	195.1	10,500	145
150							21.1	184.5	9,900	150
155							5.5	163.3	9,200	155



164.0 ft



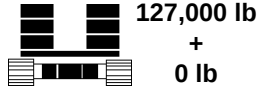
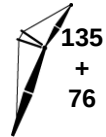
90.0 ft

	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40	73.8	258.1	74,500 *c							40
45	70.4	256.5	74,200 *c							45
50	67.0	254.5	73,900 *b							50
55	63.5	252.2	71,700 *b							55
60	59.9	249.5	67,500 *b	68.0	253.9	62,800 b				60
65	56.1	246.4	62,100	64.5	251.7	56,700 b				65
70	52.2	242.8	56,500	60.9	249.2	51,500 b	66.9	251.9	47,800 b	70
75	48.0	238.6	51,800	57.2	246.2	47,200	63.4	249.6	43,800 b	75
80	43.6	233.7	47,700	53.3	242.7	43,500	59.8	246.9	40,300 b	80
85	38.8	228.0	44,100	49.2	238.7	40,200	56.0	243.8	37,300	85
90	33.4	221.2	41,000	44.9	234.0	37,300	52.1	240.1	34,600	90
95	27.0	212.6	38,200	40.2	228.6	34,800	47.9	235.9	32,200	95
100	18.9	200.8	35,700	34.9	222.1	32,600	43.5	231.1	30,100	100
105				28.9	214.1	30,500	38.6	225.3	28,200	105
110				21.4	203.4	28,700	33.2	218.4	26,500	110
115				9.5	185.3	26,900	26.8	209.8	25,000	115
120							18.6	197.8	23,500	120
125										125
130										130
135										135
140										140
145										145
150										150



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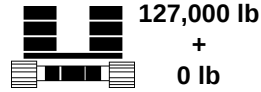
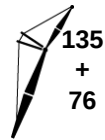


164.0 ft



90.0 ft

	75°			70°			
ft	ft	ft	lb	ft	ft	lb	ft
40							40
45							45
50							50
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90	62.6	245.8	30,000 b				90
95	59.0	243.0	27,900 b				95
100	55.2	239.7	26,100				100
105	51.2	236.0	24,400				105
110	47.0	231.7	22,900	57.9	237.6	19,400	110
115	42.5	226.6	21,600	54.1	234.3	18,200	115
120	37.5	220.7	20,300	50.1	230.4	17,100	120
125	31.9	213.5	19,200	45.8	225.9	16,100	125
130	25.3	204.3	18,100	41.1	220.6	15,200	130
135	16.3	191.1	17,100	36.0	214.3	14,300	135
140				30.2	206.6	13,500	140
145				23.1	196.7	12,800	145
150				12.7	181.2	12,000	150



164.0 ft



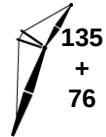
100.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	72.4	267.0	68,400 *c							45
50	69.4	265.3	68,000 *b							50
55	66.3	263.3	67,700 *b							55
60	63.1	260.9	65,100 *b	70.3	264.6	62,400 b				60
65	59.9	258.2	61,800 *	67.2	262.7	56,300 b				65
70	56.5	255.1	56,200	64.0	260.4	51,200 b				70
75	53.0	251.6	51,500	60.8	257.8	46,900	66.2	260.7	43,400 b	75
80	49.3	247.5	47,400	57.5	254.8	43,100	63.1	258.3	39,900 b	80
85	45.4	242.9	43,900	54.0	251.4	39,900	59.8	255.6	36,900	85
90	41.3	237.6	40,800	50.4	247.6	37,000	56.4	252.5	34,200	90
95	36.7	231.4	38,100	46.5	243.1	34,500	52.9	248.9	31,900	95
100	31.6	224.1	35,600	42.5	238.0	32,300	49.2	244.9	29,800	100
105	25.6	214.9	33,400	38.0	232.1	30,300	45.3	240.3	27,900	105
110	17.9	202.4	31,400	33.1	225.1	28,400	41.1	234.9	26,200	110
115				27.4	216.6	26,800	36.6	228.7	24,700	115
120				20.3	205.2	25,200	31.5	221.3	23,300	120
125				9.0	186.1	23,800	25.4	212.1	22,000	125
130							17.6	199.4	20,800	130
135										135
140										140
145										145
150										150
155										155
160										160



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14000 S-1



127,000 lb
+
0 lb



164.0 ft

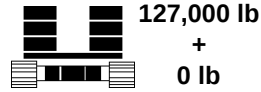
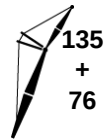


100.0 ft

	75°			70°			
ft	ft	ft	lb	ft	lb	ft	ft
45							45
50							50
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95	62.4	254.4	27,500 b				95
100	59.1	251.6	25,700				100
105	55.7	248.4	24,000				105
110	52.1	244.8	22,500				110
115	48.4	240.6	21,200				115
120	44.5	235.9	20,000	54.7	243.0	16,700	120
125	40.2	230.4	18,800	51.1	239.2	15,700	125
130	35.5	224.0	17,800	47.3	234.9	14,800	130
135	30.3	216.2	16,800	43.3	229.9	13,900	135
140	24.0	206.5	15,900	38.9	224.2	13,200	140
145	15.5	192.6	15,000	34.1	217.5	12,400	145
150				28.6	209.3	11,800	150
155				21.9	198.7	11,100	155
160				12.1	182.3	10,500	160

14000 S-1

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164.0 ft



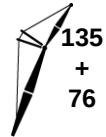
110.0 ft

	87°			83°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	74.1	277.5	52,700 *c							45
50	71.4	275.9	51,600 *b							50
55	68.6	274.1	50,600 *b							55
60	65.8	272.0	49,700 *b							60
65	62.9	269.6	48,800 *	69.4	273.5	51,200 *b				65
70	59.9	266.9	47,900 *	66.5	271.4	50,500 *b				70
75	56.8	263.8	47,100 *	63.7	269.1	46,800				75
80	53.7	260.3	46,300 *	60.7	266.5	43,100	65.7	269.4	39,800 b	80
85	50.4	256.4	43,900	57.7	263.5	39,800	62.8	267.0	36,800	85
90	46.9	252.0	40,800	54.6	260.1	37,000	59.8	264.2	34,200	90
95	43.2	247.0	38,000	51.3	256.4	34,500	56.8	261.1	31,800	95
100	39.3	241.3	35,600	47.9	252.1	32,300	53.6	257.7	29,700	100
105	34.9	234.7	33,400	44.3	247.3	30,200	50.3	253.7	27,900	105
110	30.1	226.8	31,400	40.4	241.8	28,400	46.8	249.3	26,200	110
115	24.4	217.1	29,600	36.2	235.5	26,800	43.1	244.3	24,700	115
120	17.0	203.9	28,000	31.5	228.0	25,300	39.2	238.6	23,300	120
125				26.1	218.9	23,900	34.8	232.0	22,000	125
130				19.4	207.0	22,600	30.0	224.1	20,800	130
135				8.5	186.9	21,400	24.2	214.3	19,700	135
140							16.8	200.9	18,700	140
145										145
150										150
155										155
160										160
165										165
170										170



ANSI B30.5

14000 S-1



127,000 lb
+
0 lb



164.0 ft



110.0 ft

	75°			70°			
ft	ft	ft	lb	ft	ft	lb	ft
45							45
50							50
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100	62.2	263.1	25,600				100
105	59.2	260.3	24,000				105
110	56.1	257.1	22,500				110
115	52.9	253.6	21,100				115
120	49.5	249.6	19,900				120
125	46.0	245.0	18,800	55.2	251.7	15,600	125
130	42.3	239.9	17,800	52.0	248.0	14,700	130
135	38.3	234.0	16,800	48.6	243.8	13,900	135
140	33.8	227.1	15,900	45.0	239.1	13,100	140
145	28.8	218.9	15,100	41.2	233.8	12,400	145
150	22.8	208.6	14,300	37.1	227.6	11,800	150
155	14.8	193.9	13,500	32.5	220.4	11,100	155
160				27.3	211.7	10,500	160
165				20.9	200.6	10,000	165
170				11.5	183.3	9,400	170