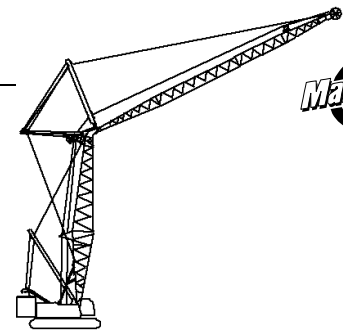


Liftcrane Luffing Jib Capacities

Luffing Jib No. 135 On Boom No. 76
 168,000 lb Crane Counterweight
 53,000 lb Carbody Counterweight
 360 Degree Rating



14000 SERIES 2



LIFTING CAPACITIES: Lifting capacities for various boom lengths, 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 193.6 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.



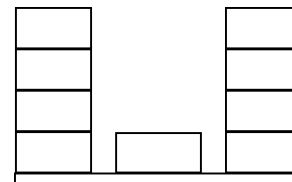
LUFFING JIB ANGLE: Luffing jib angle in degrees ($^{\circ}$) is angle between horizontal and centerline of luffing jib butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



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

Consult chart **No. 8812-A** for lifting off lower boom point with luffing jib attached. Chart **No. 8812-A** cannot be used when fixed jib No. 138 is attached to luffing jib No. 135.

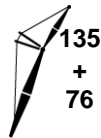


168,000 lb Crane Counterweight
 8 Side Boxes - 1 Center Box

Deduct From Luffing Jib Capacities When Fixed Jib Is Attached	
Fixed Jib Length	Fixed Jib No. 138
30 ft	2,300 lb
40 ft	2,700 lb
50 ft	3,100 lb
60 ft	3,600 lb

Boom Catwalks Deduct
Deduct 200 lb from capacities when boom catwalks are attached.

Explanation of Symbols



Luffing Jib No. 135
+
Boom No. 76



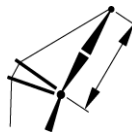
Crane Counterweight
+
Carbody Counterweight



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)

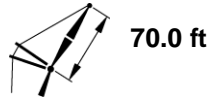


Lifting Capacities
(see page 1)

REFERENCE ONLY!

14000 S-2

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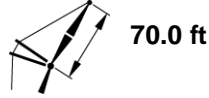


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
28			118,600 *d							28
30	74.8	140.9	117,900 *c							30
32	73.1	140.4	115,100 *c							32
34	71.4	139.7	112,400 *c							34
36	69.7	139.0	109,900 *c							36
38	67.9	138.3								38
40	66.1	137.4	107,600 *b	70.1	138.7	113,600 *c				40
45	64.3	136.5	105,300 *b	68.4	137.9	111,100 *c				45
50	59.7	133.8	100,200 *b	63.9	135.7	105,400 *b	67.0	136.6	109,300 *c	50
55	54.8	130.6	95,700 *b	59.3	133.0	100,400 *b	62.4	134.3	103,900 *b	55
60	49.7	126.7	91,800 *	54.4	129.7	95,900 *	57.7	131.4	99,100 *b	60
65	44.0	122.1	84,200 *	49.2	125.8	90,500	52.7	127.9	89,000	65
70	37.8	116.3	75,500 *	43.5	121.0	81,800	47.4	123.7	80,500	70
75	30.5	108.9	68,100 *	37.2	115.1	74,600	41.5	118.6	73,400	75
80	21.1	98.6	57,800 *	29.8	107.6	67,700 *	34.9	112.3	67,300	80
85				20.0	96.8	59,500 *	27.0	103.9	62,100	85
90							15.7	91.1	56,700 *	90
95										95
100										100



ANSI B30.5

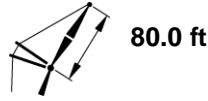
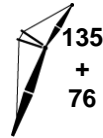
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	lb	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	96,500 b						55	
60	58.2	130.3	86,500 b						60	
65	53.3	126.9	78,200						65	
70	48.0	122.8	71,300	53.7	125.3	69,300			70	
75	42.2	117.8	65,500	48.4	121.2	63,600			75	
80	35.7	111.6	60,400	42.7	116.3	58,700	48.7	119.1	57,000	80
85	27.9	103.6	56,000	36.3	110.3	54,500	43.0	114.2	52,900	85
90	17.3	91.6	52,100	28.6	102.4	50,700	36.6	108.2	49,300	90
95				18.3	90.9	47,300	29.0	100.4	46,000	95
100							18.9	89.2	43,100	100

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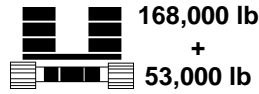
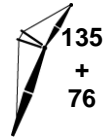


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
32	73.8	150.2	107,000 *c							32
34	72.3	149.6	104,600 *c							34
36	70.8	148.9	102,300 *c							36
38	69.3	148.2	100,100 *b							38
40	67.7	147.4	98,000 *b							40
45	63.8	145.2	93,100 *b	67.4	146.7	98,000 *b				45
50	59.7	142.5	88,600 *	63.4	144.4	93,200 *b	66.1	145.4	96,500 *b	50
55	55.5	139.3	84,700 *	59.4	141.7	88,900 *	62.1	142.9	92,000 *b	55
60	51.0	135.6	81,000 *	55.1	138.4	84,900 *	58.0	140.1	87,900 *	60
65	46.2	131.2	75,700 *	50.6	134.7	81,300 *	53.7	136.7	80,200	65
70	41.1	125.9	68,400 *	45.8	130.2	74,400	49.1	132.7	73,200	70
75	35.3	119.6	62,300 *	40.6	124.9	67,900 *	44.2	127.9	67,100	75
80	28.5	111.5	56,900 *	34.7	118.4	61,900 *	38.7	122.3	62,000	80
85	19.7	100.3	48,900 *	27.8	110.1	56,600 *	32.6	115.3	57,500	85
90				18.7	98.5	50,500 *	25.2	106.3	53,500	90
95							14.7	92.5	48,400 *	95
100										100
105										105
110										110



ANSI B30.5

14000 S-2



65.6 ft

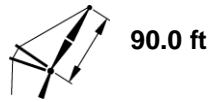


80.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60	62.6	141.8	86,200 lb							60
65	58.5	139.0	77,900							65
70	54.2	135.6	71,000							70
75	49.6	131.7	65,200	54.5	134.0	63,300				75
80	44.7	127.1	60,200	50.0	130.1	58,400				80
85	39.4	121.5	55,800	45.1	125.6	54,200	50.2	127.9	52,600	85
90	33.3	114.7	52,000	39.8	120.1	50,500	45.3	123.4	49,000	90
95	26.1	106.0	48,600	33.8	113.4	47,200	40.1	118.0	45,800	95
100	16.1	93.0	45,500	26.7	104.9	44,200	34.1	111.4	42,900	100
105				17.1	92.4	41,500	27.1	102.9	40,300	105
110							17.7	90.8	38,000	110

14000 S-2

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	87°			83°			80°			
	ft	ft	lb	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	78,100 *b	65.5	154.1	80,700 *b	55
60	56.0	148.0	71,200 *	59.4	150.3	74,600 *	61.9	151.6	77,100 *	60
65	52.1	144.4	68,300 *	55.7	147.1	71,500 *	58.2	148.7	73,800 *	65
70	47.9	140.2	65,600 *	51.7	143.5	68,600 *	54.4	145.4	70,800 *	70
75	43.5	135.3	62,900 *	47.5	139.2	65,900 *	50.4	141.5	67,000	75
80	38.6	129.6	57,600 *	43.0	134.3	62,600 *	46.1	137.1	61,800	80
85	33.2	122.7	53,000 *	38.2	128.4	57,300 *	41.5	131.9	57,400	85
90	26.8	114.0	48,900 *	32.7	121.4	52,700 *	36.5	125.7	53,400	90
95	18.6	102.0	42,300 *	26.2	112.5	48,600 *	30.7	118.2	50,000	95
100				17.6	100.1	43,800 *	23.7	108.4	46,800	100
105							13.8	93.7	42,200 *	105
110										110
115										115
120										120

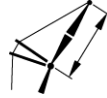


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14000 S-2



65.6 ft

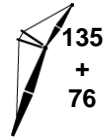


90.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65	62.3	150.5	77,400 *							65
70	58.6	147.6	70,900							70
75	54.8	144.4	65,000							75
80	50.8	140.6	60,000	55.1	142.7	58,200				80
85	46.6	136.2	55,700	51.2	139.0	54,000				85
90	42.0	131.1	51,900	46.9	134.6	50,300	51.3	136.8	48,800	90
95	37.0	125.0	48,500	42.4	129.6	47,000	47.1	132.5	45,600	95
100	31.4	117.6	45,500	37.5	123.6	44,100	42.6	127.4	42,700	100
105	24.6	108.2	42,700	31.9	116.4	41,500	37.7	121.5	40,200	105
110	15.2	94.4	40,200	25.2	107.2	39,100	32.1	114.3	37,900	110
115				16.2	93.9	36,900	25.5	105.2	35,800	115
120							16.6	92.3	33,800	120

14000 S-2

ANSI B30.5



65.6 ft



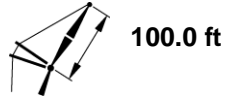
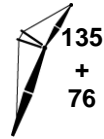
100.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	69,400 *	64.9	162.8	71,700 *	60
65	56.4	156.7	63,200 *	59.5	159.0	66,200 *	61.7	160.3	68,500 *	65
70	52.9	153.1	60,400 *	56.1	155.8	63,300 *	58.4	157.4	65,500 *	70
75	49.2	149.1	57,900 *	52.6	152.2	60,600 *	55.0	154.1	62,700 *	75
80	45.3	144.5	55,600 *	48.9	148.2	58,100 *	51.4	150.4	60,000 *	80
85	41.1	139.2	53,000 *	44.9	143.5	55,800 *	47.6	146.1	57,100 *	85
90	36.6	133.0	49,000 *	40.7	138.1	52,700 *	43.6	141.2	53,200 *	90
95	31.4	125.6	45,400 *	36.1	131.8	48,700 *	39.3	135.5	49,700 *	95
100	25.4	116.3	42,200 *	30.9	124.2	45,200 *	34.5	128.9	46,600 *	100
105	17.6	103.6	36,700 *	24.8	114.8	42,000 *	29.1	120.8	43,800 *	105
110				16.7	101.6	38,100 *	22.5	110.5	41,100 *	110
115							13.1	94.9	36,800 *	115
120										120
125										125
130										130



ANSI B30.5

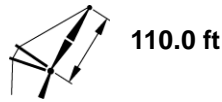
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
36									36	
38									38	
40									40	
45									45	
50									50	
55									55	
60									60	
65									65	
70	62.1	159.1	68,700 *						70	
75	58.8	156.3	64,700						75	
80	55.4	153.1	59,700						80	
85	51.8	149.4	55,400	55.6	151.4	53,700			85	
90	48.1	145.2	51,600	52.1	147.8	50,000			90	
95	44.1	140.3	48,200	48.4	143.6	46,700	52.2	145.6	45,200	95
100	39.8	134.8	45,200	44.4	138.8	43,800	48.5	141.4	42,400	100
105	35.1	128.2	42,500	40.1	133.3	41,200	44.6	136.7	39,900	105
110	29.7	120.4	40,100	35.5	126.9	38,800	40.3	131.2	37,600	110
115	23.3	110.3	37,800	30.2	119.1	36,700	35.7	124.8	35,500	115
120	14.4	95.7	35,800	23.9	109.3	34,700	30.4	117.1	33,600	120
125				15.3	95.3	32,900	24.2	107.4	31,800	125
130							15.8	93.7	30,200	130

14000 S-2

ANSI B30.5

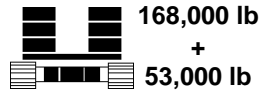
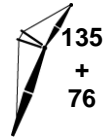


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40	74.0	179.1	75,500 *b							40
45	71.3	177.6	72,300 *b							45
50	68.5	175.7	69,200 *							50
55	65.7	173.6	66,400 *	68.2	175.0	69,200 *				55
60	62.8	171.2	63,600 *	65.4	172.9	66,400 *	67.3	173.7	68,300 *	60
65	59.8	168.5	60,900 *	62.5	170.4	63,700 *	64.5	171.5	65,600 *	65
70	56.7	165.4	58,300 *	59.5	167.6	61,000 *	61.6	168.9	62,900 *	70
75	53.6	161.9	55,900 *	56.5	164.5	58,400 *	58.6	166.1	60,200 *	75
80	50.3	158.0	53,700 *	53.3	161.0	56,000 *	55.4	162.8	57,700 *	80
85	46.8	153.6	51,600 *	50.0	157.1	53,800 *	52.2	159.1	55,400 *	85
90	43.1	148.6	49,000 *	46.5	152.6	51,800 *	48.8	155.0	53,200 *	90
95	39.1	142.8	45,500 *	42.8	147.5	48,800 *	45.3	150.4	49,700 *	95
100	34.8	136.2	42,400 *	38.8	141.7	45,300 *	41.5	145.1	46,600 *	100
105	29.9	128.3	39,500 *	34.4	135.0	42,200 *	37.4	139.0	43,900 *	105
110	24.2	118.5	36,100 *	29.5	126.9	39,400 *	32.9	131.9	41,300 *	110
115	16.8	105.1	30,300 *	23.6	116.9	36,800 *	27.7	123.3	38,600 *	115
120				15.9	103.0	31,600 *	21.4	112.4	36,100 *	120
125							12.5	96.0	30,700 *	125
130										130
135										135
140										140

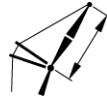


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14000 S-2



65.6 ft

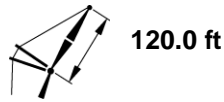


110.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	61.9	167.8	63,100 *							75
80	58.9	165.0	59,600							80
85	55.8	161.7	55,300							85
90	52.6	158.1	51,500	56.0	160.1	49,900				90
95	49.2	154.1	48,200	52.8	156.5	46,600				95
100	45.7	149.5	45,200	49.5	152.5	43,700	53.0	154.3	42,400	100
105	41.9	144.3	42,500	46.0	148.0	41,100	49.6	150.3	39,800	105
110	37.9	138.3	40,100	42.2	142.8	38,800	46.1	145.8	37,500	110
115	33.4	131.3	37,900	38.2	136.9	36,700	42.4	140.7	35,500	115
120	28.3	122.9	35,900	33.8	130.0	34,700	38.4	134.8	33,600	120
125	22.2	112.3	34,000	28.7	121.8	32,900	34.0	128.0	31,900	125
130	13.8	96.9	32,300	22.7	111.4	31,300	29.0	119.8	30,300	130
135				14.6	96.6	29,700	23.0	109.5	28,800	135
140							15.0	95.1	27,400	140

14000 S-2

ANSI B30.5

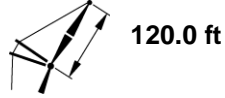


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	72.9	188.1	67,000 *b							45
50	70.4	186.4	64,000 *							50
55	67.8	184.5	61,300 *	70.1	185.7	64,000 *				55
60	65.2	182.3	58,700 *	67.6	183.8	61,200 *				60
65	62.5	179.9	56,200 *	65.0	181.6	58,700 *	66.7	182.5	60,400 *	65
70	59.8	177.1	53,900 *	62.3	179.1	56,300 *	64.1	180.2	57,900 *	70
75	57.0	174.1	51,600 *	59.6	176.3	54,000 *	61.4	177.6	55,600 *	75
80	54.1	170.6	49,500 *	56.8	173.2	51,700 *	58.7	174.7	53,300 *	80
85	51.1	166.8	47,400 *	53.9	169.7	49,600 *	55.8	171.5	51,100 *	85
90	48.0	162.6	45,500 *	50.8	165.9	47,500 *	52.9	167.9	49,000 *	90
95	44.7	157.8	43,600 *	47.7	161.6	45,500 *	49.8	163.9	47,000 *	95
100	41.2	152.4	41,900 *	44.4	156.8	43,700 *	46.6	159.5	45,000 *	100
105	37.4	146.3	39,400 *	40.8	151.3	42,000 *	43.3	154.4	43,200 *	105
110	33.3	139.2	36,900 *	37.1	145.1	39,300 *	39.7	148.8	41,100 *	110
115	28.6	130.9	34,600 *	32.9	138.0	36,800 *	35.7	142.3	38,500 *	115
120	23.2	120.6	31,600 *	28.2	129.5	34,500 *	31.4	134.8	36,000 *	120
125	16.1	106.6	26,700 *	22.6	119.0	32,400 *	26.5	125.8	33,800 *	125
130				15.3	104.4	27,800 *	20.5	114.3	31,700 *	130
135							12.0	97.1	27,100 *	135
140										140
145										145
150										150



ANSI B30.5

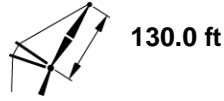
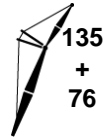
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	61.7	176.5	55,600 *							80
85	59.0	173.6	53,400 *							85
90	56.1	170.4	51,200							90
95	53.2	166.9	47,900	56.4	168.8	46,300				95
100	50.2	162.9	44,900	53.5	165.3	43,400				100
105	47.0	158.5	42,200	50.4	161.4	40,800				105
110	43.6	153.6	39,800	47.3	157.0	38,500	50.6	159.2	37,200	110
115	40.1	148.0	37,600	43.9	152.1	36,400	47.4	154.8	35,200	115
120	36.2	141.6	35,600	40.4	146.6	34,400	44.1	149.9	33,300	120
125	31.9	134.2	33,800	36.5	140.3	32,700	40.5	144.5	31,600	125
130	27.1	125.4	32,100	32.3	133.0	31,000	36.7	138.2	30,000	130
135	21.2	114.3	30,500	27.5	124.3	29,500	32.5	130.9	28,500	135
140	13.2	98.1	29,100	21.8	113.4	28,100	27.7	122.3	27,200	140
145				14.0	97.9	26,800	22.0	111.5	25,900	145
150							14.4	96.3	24,700	150

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	45,600 *	80
85	54.6	179.4	40,700 *	57.0	181.9	42,400 *	58.8	183.4	43,700 *	85
90	51.8	175.6	39,000 *	54.3	178.5	40,700 *	56.2	180.2	41,900 *	90
95	49.0	171.5	37,500 *	51.6	174.7	39,100 *	53.5	176.7	40,300 *	95
100	46.0	166.9	36,000 *	48.7	170.5	37,500 *	50.7	172.8	38,700 *	100
105	42.8	161.8	34,700 *	45.7	165.9	36,100 *	47.8	168.5	37,100 *	105
110	39.5	156.1	33,300 *	42.5	160.7	34,700 *	44.7	163.7	35,700 *	110
115	35.9	149.6	32,100 *	39.2	155.0	33,400 *	41.5	158.3	34,400 *	115
120	31.9	142.2	31,000 *	35.5	148.4	32,200 *	38.0	152.3	33,100 *	120
125	27.5	133.4	30,000 *	31.6	140.9	31,100 *	34.3	145.5	31,900 *	125
130	22.2	122.6	28,000 *	27.1	132.0	30,100 *	30.2	137.5	30,800 *	130
135	15.4	107.9	23,700 *	21.7	120.9	28,900 *	25.4	128.1	29,800 *	135
140				14.7	105.7	24,800 *	19.7	116.0	28,400 *	140
145							11.5	98.1	24,300 *	145
150										150
155										155
160										160

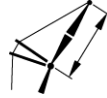


ANSI B30.5

14000 S-2



65.6 ft



130.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	61.6	185.1	45,600 *							85
90	59.1	182.3	43,800 *							90
95	56.5	179.1	42,100 *							95
100	53.8	175.6	40,400 *	56.7	177.5	42,000 *				100
105	51.0	171.8	38,900 *	54.0	174.0	40,400 *				105
110	48.1	167.5	37,300 *	51.2	170.2	38,300				110
115	45.0	162.8	35,900 *	48.3	166.0	36,100	51.3	168.0	34,900	115
120	41.8	157.5	34,500 *	45.3	161.3	34,200	48.4	163.8	33,000	120
125	38.4	151.6	33,300 *	42.1	156.0	32,500	45.4	159.1	31,300	125
130	34.7	144.8	31,900	38.7	150.2	30,800	42.2	153.9	29,800	130
135	30.6	137.0	30,400	35.0	143.5	29,300	38.9	148.1	28,300	135
140	26.0	127.8	29,000	31.0	135.8	28,000	35.2	141.4	27,000	140
145	20.4	116.1	27,600	26.4	126.7	26,700	31.2	133.8	25,700	145
150	12.6	99.2	26,300	20.9	115.2	25,500	26.6	124.7	24,600	150
155				13.4	99.1	24,300	21.2	113.4	23,500	155
160							13.8	97.6	22,400	160

14000 S-2

ANSI B30.5



65.6 ft



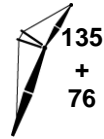
140.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	36,700 *	95
100	49.8	180.4	32,600 *	52.2	183.5	34,100 *	53.9	185.4	35,100 *	100
105	47.1	175.9	31,200 *	49.6	179.4	32,600 *	51.4	181.6	33,600 *	105
110	44.2	171.0	29,900 *	46.8	174.9	31,300 *	48.7	177.4	32,200 *	110
115	41.2	165.6	28,700 *	44.0	170.0	30,000 *	45.9	172.8	30,900 *	115
120	38.0	159.6	27,500 *	40.9	164.6	28,700 *	43.0	167.7	29,600 *	120
125	34.5	152.8	26,400 *	37.7	158.4	27,500 *	39.9	162.0	28,400 *	125
130	30.7	145.0	25,400 *	34.2	151.6	26,500 *	36.6	155.7	27,200 *	130
135	26.5	135.8	24,500 *	30.4	143.6	25,400 *	33.0	148.5	26,200 *	135
140	21.4	124.5	23,700 *	26.1	134.3	24,500 *	29.0	140.2	25,200 *	140
145	14.9	109.3	21,000 *	20.9	122.8	23,700 *	24.5	130.3	24,300 *	145
150				14.1	107.0	22,000 *	19.0	117.7	23,500 *	150
155							11.1	99.1	21,500 *	155
160										160
165										165
170										170



ANSI B30.5

14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	61.5	193.8	40,000 *							90
95	59.1	190.9	38,400 *							95
100	56.7	187.8	36,800 *							100
105	54.2	184.4	35,300 *	56.9	186.2	36,700 *				105
110	51.7	180.6	33,800 *	54.4	182.7	35,200 *				110
115	49.0	176.4	32,400 *	51.9	179.0	33,800 *				115
120	46.2	171.9	31,100 *	49.2	174.9	32,500 *	52.0	176.8	32,700	120
125	43.3	166.8	29,800 *	46.5	170.4	31,100 *	49.3	172.7	31,000	125
130	40.3	161.2	28,600 *	43.6	165.4	29,900 *	46.6	168.2	29,400	130
135	37.0	155.0	27,500 *	40.5	159.8	28,700 *	43.7	163.2	28,000	135
140	33.4	147.9	26,400 *	37.2	153.6	27,600 *	40.6	157.7	26,700	140
145	29.5	139.7	25,400 *	33.7	146.6	26,400	37.4	151.5	25,400	145
150	25.0	130.0	24,500 *	29.8	138.5	25,200	33.9	144.5	24,300	150
155	19.7	117.9	23,700 *	25.4	129.0	24,100	30.0	136.5	23,200	155
160	12.2	100.3	23,100 *	20.1	117.1	23,000	25.6	127.1	22,200	160
165				12.9	100.2	22,000	20.4	115.3	21,200	165
170							13.3	98.8	20,300	170

14000 S-2

ANSI B30.5



65.6 ft



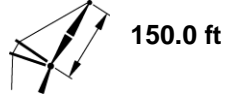
150.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	29,400 *	110
115	45.4	180.2	25,900 *	47.8	183.9	27,100 *	49.5	186.3	28,000 *	115
120	42.7	175.0	24,800 *	45.2	179.2	25,900 *	47.0	181.8	26,800 *	120
125	39.8	169.3	23,700 *	42.4	174.0	24,800 *	44.3	176.9	25,600 *	125
130	36.7	163.0	22,700 *	39.5	168.2	23,700 *	41.5	171.6	24,500 *	130
135	33.3	155.8	21,700 *	36.4	161.8	22,700 *	38.5	165.6	23,400 *	135
140	29.7	147.7	20,800 *	33.0	154.6	21,700 *	35.3	158.9	22,400 *	140
145	25.6	138.1	19,900 *	29.3	146.3	20,800 *	31.9	151.4	21,500 *	145
150	20.7	126.4	19,200 *	25.2	136.6	20,000 *	28.0	142.7	20,600 *	150
155	14.3	110.6	18,600 *	20.2	124.6	19,300 *	23.7	132.4	19,700 *	155
160				13.6	108.2	18,600 *	18.3	119.4	19,000 *	160
165							10.7	100.1	18,600 *	165
170										170
175										175
180										180



ANSI B30.5

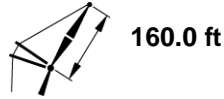
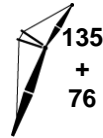
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	61.4	202.5	35,300 *							95
100	59.2	199.6	33,800 *							100
105	56.9	196.5	32,300 *							105
110	54.6	193.1	30,900 *	57.1	194.8	32,200 *				110
115	52.2	189.4	29,600 *	54.8	191.5	30,900 *				115
120	49.8	185.3	28,200 *	52.4	187.8	29,500 *				120
125	47.2	180.9	27,000 *	50.0	183.8	28,300 *	52.5	185.6	29,400 *	125
130	44.6	176.1	25,800 *	47.4	179.4	27,000 *	50.1	181.6	28,200 *	130
135	41.8	170.7	24,600 *	44.8	174.6	25,800 *	47.6	177.2	26,900 *	135
140	38.8	164.8	23,600 *	42.0	169.3	24,700 *	44.9	172.4	25,800 *	140
145	35.7	158.3	22,600 *	39.1	163.4	23,700 *	42.1	167.1	24,700 *	145
150	32.3	150.9	21,600 *	35.9	156.9	22,700 *	39.2	161.3	23,700 *	150
155	28.5	142.3	20,800 *	32.5	149.6	21,800 *	36.1	154.8	22,700 *	155
160	24.2	132.2	19,900 *	28.8	141.1	20,800 *	32.7	147.5	21,700 *	160
165	19.0	119.6	19,200 *	24.5	131.2	20,000 *	29.0	139.1	20,900 *	165
170	11.8	101.4	18,600 *	19.4	118.8	19,300 *	24.7	129.3	20,000 *	170
175				12.5	101.3	18,700 *	19.7	117.0	19,300 *	175
180							12.9	99.9	18,600	180

14000 S-2

ANSI B30.5

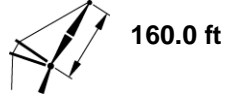


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	73.5	226.8	41,200 *							55
60	71.7	225.3	39,300 *							60
65	69.8	223.5	37,500 *							65
70	67.9	221.6	35,900 *	69.6	222.8	37,500 *				70
75	65.9	219.4	34,200 *	67.7	220.9	35,700 *				75
80	63.9	217.1	32,600 *	65.7	218.7	34,100 *	67.0	219.6	35,200 *	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

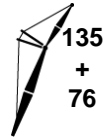
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	27,800 *							110
115	55.0	201.8	26,500 *	57.3	203.5	27,700 *				115
120	52.8	198.1	25,200 *	55.1	200.2	26,400 *				120
125	50.5	194.2	24,000 *	52.9	196.5	25,200 *				125
130	48.1	189.9	22,800 *	50.7	192.6	24,000 *				130
135	45.7	185.2	21,700 *	48.3	188.3	22,900 *	50.8	190.4	23,900 *	135
140	43.1	180.1	20,700 *	45.9	183.7	21,800 *	48.4	186.1	22,800 *	140
145	40.4	174.5	19,600 *	43.3	178.6	20,700 *	46.0	181.5	21,700 *	145
150	37.6	168.3	18,700 *	40.6	173.0	19,700 *	43.4	176.5	20,700 *	150
155	34.5	161.4	17,800 *	37.8	166.9	18,800 *	40.7	170.9	19,700 *	155
160	31.2	153.7	16,900 *	34.8	160.1	17,900 *	37.9	164.8	18,800 *	160
165	27.6	144.8	16,100 *	31.5	152.4	17,100 *	34.9	158.0	17,900 *	165
170	23.4	134.3	15,400 *	27.9	143.7	16,200 *	31.6	150.4	17,000 *	170
175	18.4	121.2	14,700 *	23.8	133.3	15,500 *	28.0	141.7	16,300 *	175
180	11.4	102.4	13,900 *	18.8	120.5	14,800 *	23.9	131.4	15,500 *	180
185				12.1	102.4	14,000 *	19.1	118.7	14,900 *	185
190							12.5	101.0	14,100 *	190

14000 S-2

ANSI B30.5

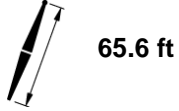


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	74.5	237.2	38,000 *							55
60	72.8	235.8	36,300 *							60
65	71.0	234.1	34,700 *							65
70	69.2	232.3	33,100 *	70.8	233.4	34,500 *				70
75	67.4	230.3	31,400 *	69.1	231.6	32,900 *				75
80	65.6	228.2	30,000 *	67.2	229.6	31,300 *				80
85	63.7	225.8	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

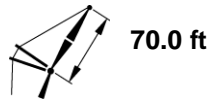
14000 S-2



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

14000 S-2

ANSI B30.5

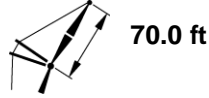


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
30	73.6	150.4	115,900 *c							30
32	71.8	149.7	115,200 *c							32
34	70.1	149.1	112,600 *c							34
36	68.4	148.3	110,100 *c							36
38	66.6	147.5	107,700 *c							38
40	64.8	146.6	105,500 *b	69.4	148.1	112,100 *c				40
45	60.2	143.9	100,400 *b	65.0	146.1	106,400 *b				45
50	55.3	140.8	95,900 *b	60.4	143.5	101,300 *b	64.0	144.8	105,400 *b	50
55	50.2	137.0	92,000 *	55.6	140.4	96,800 *b	59.4	142.1	98,700 b	55
60	44.6	132.4	85,900 *	50.4	136.6	90,200	54.5	138.9	88,400 b	60
65	38.5	126.8	76,900 *	44.9	132.0	81,600	49.3	134.9	80,000	65
70	31.3	119.6	69,300 *	38.8	126.4	74,400	43.6	130.2	72,900	70
75	22.2	109.7	62,600 *	31.7	119.4	68,200	37.3	124.3	66,900	75
80	4.3	88.4	44,200 *	22.7	109.6	62,900	29.9	116.8	61,800	80
85				6.3	90.3	48,500 *	20.2	106.1	57,200	85
90										90
95										95
100										100
105										105



ANSI B30.5

14000 S-2



	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	60.7	141.3	85,500 b						60	
65	55.8	138.2	77,300 b						65	
70	50.7	134.5	70,500	57.0	136.9	68,200 b			70	
75	45.2	130.0	64,700	52.0	133.3	62,600			75	
80	39.1	124.5	59,800	46.6	129.0	57,700			80	
85	32.1	117.5	55,400	40.7	123.8	53,600	47.7	127.2	51,700	85
90	23.3	108.0	51,600	33.9	117.2	49,900	41.9	122.2	48,200	90
95	8.1	90.2	48,100	25.7	108.5	46,600	35.4	115.9	45,000	95
100				13.5	94.4	43,600	27.5	107.8	42,200	100
105							16.6	95.4	39,600	105

14000 S-2

ANSI B30.5

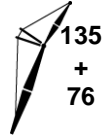


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
32	74.2	160.2	105,600 *c							32
34	72.7	159.6	104,600 *c							34
36	71.2	158.9	102,300 *c							36
38	69.7	158.2	100,100 *c							38
40	68.1	157.5	98,000 *b							40
45	64.2	155.2	93,100 *b	68.3	156.9	98,800 *b				45
50	60.2	152.6	88,800 *b	64.4	154.7	94,000 *b	67.4	155.8	97,800 *b	50
55	55.9	149.5	84,900 *	60.4	152.1	89,600 *b	63.5	153.5	93,100 *b	55
60	51.5	145.8	81,400 *	56.1	149.0	85,700 *	59.4	150.8	88,100 b	60
65	46.8	141.5	77,100 *	51.7	145.4	81,300	55.2	147.6	79,700	65
70	41.6	136.4	69,700 *	47.0	141.1	74,200	50.7	143.8	72,700	70
75	35.9	130.1	63,300 *	41.9	136.0	68,100	45.9	139.4	66,700	75
80	29.2	122.3	57,900 *	36.2	129.8	62,800	40.7	134.0	61,600	80
85	20.8	111.6	52,900 *	29.6	122.1	58,200 *	34.8	127.6	57,100	85
90	4.0	88.8	38,200 *	21.2	111.6	53,400 *	27.9	119.4	53,200	90
95				5.9	90.9	41,900 *	18.9	107.8	49,700	95
100										100
105										105
110										110
115										115



ANSI B30.5

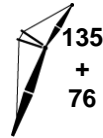
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65	60.6	150.0	77,000 b							65
70	56.4	146.9	70,200							70
75	52.0	143.3	64,400	57.4	145.5	62,200				75
80	47.3	139.0	59,500	53.1	142.1	57,400				80
85	42.2	134.0	55,200	48.4	138.0	53,300				85
90	36.5	127.9	51,400	43.4	133.1	49,600	49.4	136.2	47,800	90
95	30.0	120.3	48,000	38.0	127.3	46,400	44.5	131.5	44,700	95
100	21.8	109.9	45,000	31.7	120.1	43,500	39.1	125.9	41,900	100
105	7.6	90.9	42,200	24.0	110.7	40,800	33.0	119.0	39,400	105
110				12.6	95.6	38,400	25.7	110.1	37,100	110
115							15.5	96.9	35,000	115

14000 S-2

ANSI B30.5



75.5 ft



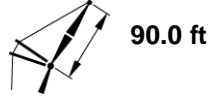
90.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
34			91,400 *c							34
36			89,500 *c							36
38			87,700 *c							38
40			86,000 *b							40
45			81,800 *b	70.8	167.6	86,500 *b				45
50			78,000 *b	67.4	165.7	82,400 *b				50
55			74,500 *	63.9	163.4	78,700 *b	66.6	164.5	81,700 *b	55
60			71,300 *	60.3	160.8	75,200 *	63.1	162.2	78,100 *b	60
65			68,500 *	56.6	157.7	72,000 *	59.5	159.4	74,800 *	65
70			65,800 *	52.7	154.2	69,200 *	55.7	156.3	71,700 *	70
75			63,400 *	48.6	150.1	66,500 *	51.8	152.6	66,600	75
80			58,600 *	44.2	145.3	62,700	47.6	148.4	61,400	80
85			53,800 *	39.4	139.7	58,200	43.1	143.4	57,000	85
90			49,600 *	34.0	133.0	54,200 *	38.2	137.6	53,100	90
95			45,800 *	27.9	124.7	49,900 *	32.8	130.6	49,600	95
100	3.8	89.1	33,500 *	20.0	113.4	46,100 *	26.3	121.8	46,500	100
105				5.6	91.4	36,800 *	17.8	109.4	43,700	105
110										110
115										115
120										120
125										125



ANSI B30.5

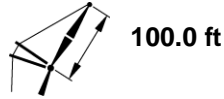
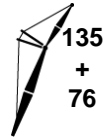
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	60.5	158.6	70,000							70
75	56.8	155.6	64,300							75
80	52.9	152.1	59,300	57.7	154.2	57,200				80
85	48.8	148.0	55,000	53.9	150.8	53,000				85
90	44.4	143.3	51,200	49.8	146.9	49,400				90
95	39.6	137.7	47,900	45.5	142.3	46,200	50.6	145.0	44,500	95
100	34.4	131.1	44,900	40.8	137.0	43,300	46.4	140.6	41,700	100
105	28.2	122.8	42,200	35.7	130.6	40,700	41.8	135.4	39,200	105
110	20.5	111.8	39,800	29.8	122.9	38,400	36.8	129.3	37,000	110
115	7.2	91.5	37,500	22.6	112.7	36,300	31.1	121.9	34,900	115
120				11.9	96.6	34,300	24.2	112.4	33,100	120
125							14.7	98.2	31,300	125

14000 S-2

ANSI B30.5

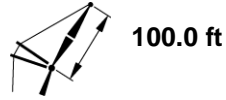


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38	73.9	179.3	82,200 *c							38
40	72.7	178.7	80,500 *b							40
45	69.6	177.0	76,500 *b							45
50	66.5	175.0	72,900 *b	69.8	176.4	77,000 *b				50
55	63.4	172.6	69,500 *	66.7	174.4	73,400 *b				55
60	60.1	169.9	66,300 *	63.5	172.1	70,000 *	66.0	173.3	72,700 *b	60
65	56.8	166.9	63,300 *	60.3	169.4	66,900 *	62.8	170.9	69,400 *	65
70	53.3	163.4	60,600 *	56.9	166.4	63,900 *	59.5	168.1	66,400 *	70
75	49.6	159.4	58,100 *	53.4	162.9	61,200 *	56.2	165.0	63,500 *	75
80	45.7	154.8	55,800 *	49.8	159.0	58,700 *	52.6	161.4	60,900 *	80
85	41.6	149.6	53,700 *	45.9	154.4	56,400 *	48.9	157.3	56,700	85
90	37.1	143.5	49,800 *	41.8	149.2	54,000	45.0	152.6	52,800	90
95	32.0	136.2	46,100 *	37.3	143.2	50,000 *	40.8	147.3	49,400	95
100	26.1	127.2	42,800 *	32.2	136.0	46,400 *	36.2	141.0	46,300	100
105	18.5	115.0	39,700 *	26.4	127.1	43,000 *	31.0	133.5	43,500	105
110	3.6	89.4	29,400 *	19.0	115.1	40,000 *	24.9	124.1	41,000	110
115				5.3	91.8	32,300 *	16.9	111.0	38,800	115
120										120
125										125
130										130
135										135



ANSI B30.5

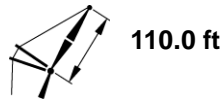
14000 S-2



	75°			70°			65°			
	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	63,900							75
80	57.1	164.3	59,000							80
85	53.6	160.8	54,700	57.9	162.9	52,700				85
90	50.0	156.9	50,900	54.5	159.5	49,100				90
95	46.1	152.4	47,600	50.9	155.7	45,800				95
100	42.0	147.2	44,600	47.1	151.4	43,000	51.6	153.8	41,400	100
105	37.5	141.2	42,000	43.0	146.4	40,400	47.9	149.6	38,900	105
110	32.5	134.1	39,600	38.7	140.6	38,100	43.9	144.7	36,700	110
115	26.7	125.3	37,400	33.8	133.8	36,000	39.6	139.1	34,600	115
120	19.4	113.6	35,400	28.3	125.5	34,100	34.8	132.6	32,800	120
125	6.8	92.1	33,500	21.4	114.7	32,300	29.5	124.6	31,100	125
130				11.2	97.6	30,600	23.0	114.4	29,500	130
135							13.9	99.4	28,000	135

14000 S-2

ANSI B30.5

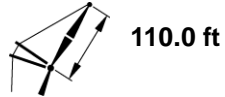
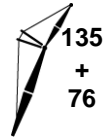


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40	74.3	189.1	75,200 *b							40
45	71.6	187.6	72,100 *b							45
50	68.8	185.8	69,100 *b							50
55	66.0	183.7	66,300 *	68.9	185.2	69,500 *b				55
60	63.1	181.3	63,600 *	66.1	183.2	66,700 *				60
65	60.1	178.6	61,000 *	63.2	180.8	64,100 *	65.5	182.0	66,100 *	65
70	57.1	175.5	58,500 *	60.3	178.1	61,500 *	62.6	179.5	63,600 *	70
75	53.9	172.1	56,100 *	57.2	175.1	59,000 *	59.6	176.8	61,000 *	75
80	50.6	168.2	53,900 *	54.1	171.7	56,500 *	56.5	173.6	58,500 *	80
85	47.2	163.9	51,800 *	50.8	167.8	54,300 *	53.3	170.1	56,100 *	85
90	43.5	158.9	49,800 *	47.3	163.5	52,200 *	50.0	166.2	52,800	90
95	39.6	153.3	46,200 *	43.7	158.6	50,100 *	46.5	161.7	49,400	95
100	35.3	146.7	43,000 *	39.7	152.9	46,500 *	42.8	156.7	46,300	100
105	30.5	139.0	40,100 *	35.5	146.4	43,200 *	38.8	150.9	43,500	105
110	24.9	129.5	37,500 *	30.7	138.8	40,300 *	34.5	144.2	41,100	110
115	17.7	116.6	32,900 *	25.1	129.4	37,700 *	29.6	136.2	38,800	115
120	3.4	89.7	24,500 *	18.1	116.7	35,200 *	23.8	126.2	36,800	120
125				5.0	92.3	26,900 *	16.1	112.4	34,700 *	125
130										130
135										135
140										140
145										145



ANSI B30.5

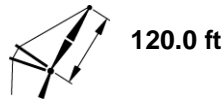
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
40									40	
45									45	
50									50	
55									55	
60									60	
65									65	
70									70	
75									75	
80	60.4	175.9	58,900						80	
85	57.4	172.9	54,600						85	
90	54.2	169.5	50,900						90	
95	51.0	165.7	47,600	55.0	168.2	45,800			95	
100	47.5	161.4	44,600	51.8	164.5	42,900			100	
105	43.9	156.5	42,000	48.4	160.3	40,400	52.4	162.6	38,800	105
110	40.0	151.0	39,600	44.8	155.6	38,100	49.1	158.5	36,600	110
115	35.7	144.5	37,400	41.0	150.2	36,000	45.5	153.9	34,600	115
120	31.0	136.9	35,400	36.8	144.0	34,100	41.7	148.7	32,800	120
125	25.5	127.6	33,600	32.2	136.7	32,300	37.7	142.6	31,100	125
130	18.5	115.2	31,900	26.9	127.9	30,700	33.2	135.6	29,500	130
135	6.5	92.7	30,300	20.4	116.5	29,200	28.1	127.2	28,100	135
140				10.7	98.6	27,800	21.9	116.4	26,700	140
145							13.2	100.6	25,500	145

14000 S-2

ANSI B30.5

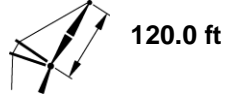


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	73.1	198.1	66,800 *b							45
50	70.6	196.4	64,000 *b							50
55	68.1	194.5	61,300 *	70.7	195.9	64,200 *b				55
60	65.5	192.4	58,700 *	68.2	194.0	61,600 *				60
65	62.8	190.0	56,200 *	65.6	191.9	59,100 *	67.6	192.9	60,900 *	65
70	60.1	187.3	53,900 *	62.9	189.5	56,600 *	65.0	190.7	58,500 *	70
75	57.3	184.2	51,700 *	60.2	186.8	54,300 *	62.4	188.2	56,200 *	75
80	54.4	180.8	49,600 *	57.4	183.7	52,200 *	59.6	185.4	53,900 *	80
85	51.4	177.1	47,600 *	54.6	180.4	50,000 *	56.8	182.3	51,800 *	85
90	48.3	172.8	45,700 *	51.6	176.6	48,000 *	53.9	178.9	49,700 *	90
95	45.0	168.1	43,800 *	48.5	172.4	46,000 *	50.9	175.0	47,600 *	95
100	41.5	162.8	42,100 *	45.2	167.7	44,100 *	47.8	170.7	45,700 *	100
105	37.8	156.8	40,000 *	41.7	162.5	42,400 *	44.4	165.9	43,300 *	105
110	33.7	149.8	37,500 *	38.0	156.5	40,300 *	40.9	160.5	40,800 *	110
115	29.1	141.7	35,100 *	33.9	149.6	37,600 *	37.1	154.3	38,600 *	115
120	23.8	131.6	32,900 *	29.4	141.5	35,300 *	33.0	147.2	36,500 *	120
125	16.9	118.1	29,000 *	24.1	131.5	33,100 *	28.3	138.7	34,700 *	125
130	3.3	90.0	21,600 *	17.3	118.3	31,000 *	22.7	128.3	32,700 *	130
135				4.8	92.7	23,900 *	15.4	113.8	30,700 *	135
140										140
145										145
150										150
155										155



ANSI B30.5

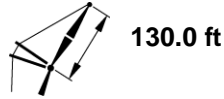
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	60.4	184.6	54,300							85
90	57.6	181.6	50,600							90
95	54.7	178.3	47,200							95
100	51.7	174.5	44,300	55.4	176.9	42,600				100
105	48.6	170.4	41,700	52.5	173.3	40,100				105
110	45.4	165.7	39,300	49.4	169.2	37,800				110
115	41.9	160.4	37,100	46.2	164.7	35,700	50.0	167.4	34,300	115
120	38.2	154.5	35,100	42.8	159.6	33,800	46.8	163.0	32,400	120
125	34.2	147.7	33,300	39.1	153.9	32,000	43.5	158.0	30,700	125
130	29.6	139.6	31,700	35.2	147.3	30,400	39.9	152.4	29,200	130
135	24.4	129.8	30,100	30.8	139.6	28,900	36.0	146.0	27,800	135
140	17.7	116.8	28,700	25.8	130.3	27,600	31.7	138.5	26,500	140
145	6.2	93.2	27,300	19.6	118.3	26,300	26.8	129.6	25,200	145
150				10.3	99.5	25,100	20.9	118.3	24,100	150
155							12.7	101.8	23,000	155

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	46,100 *	80
85	54.9	189.5	40,800 *	57.6	192.4	42,800 *	59.7	194.1	44,300 *	85
90	52.1	185.8	39,200 *	55.0	189.1	41,100 *	57.1	191.0	42,500 *	90
95	49.3	181.7	37,600 *	52.3	185.4	39,400 *	54.4	187.6	40,800 *	95
100	46.3	177.2	36,200 *	49.4	181.3	37,900 *	51.6	183.8	39,200 *	100
105	43.2	172.2	34,700 *	46.4	176.8	36,400 *	48.8	179.7	37,600 *	105
110	39.8	166.5	33,500 *	43.3	171.8	35,000 *	45.8	175.1	36,200 *	110
115	36.3	160.1	32,300 *	40.0	166.2	33,700 *	42.6	169.9	34,800 *	115
120	32.4	152.8	31,100 *	36.4	159.8	32,500 *	39.2	164.1	33,600 *	120
125	28.0	144.2	30,100 *	32.6	152.6	31,400 *	35.6	157.6	32,400 *	125
130	22.8	133.7	29,200 *	28.2	144.0	30,300 *	31.6	150.1	31,200 *	130
135	16.3	119.6	25,800 *	23.1	133.6	29,400 *	27.1	141.2	30,200 *	135
140	3.1	90.3	19,300 *	16.6	119.8	27,800 *	21.8	130.2	29,200 *	140
145				4.6	93.1	21,400 *	14.8	115.1	27,500 *	145
150										150
155										155
160										160
165										165



ANSI B30.5

14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	62.9	196.0	46,300 *							85
90	60.4	193.3	44,500 *							90
95	57.8	190.3	42,900 *							95
100	55.1	187.0	41,200 *							100
105	52.4	183.3	39,700 *	55.8	185.6	39,800				105
110	49.6	179.2	38,100 *	53.1	182.1	37,500				110
115	46.6	174.8	36,700 *	50.3	178.1	35,400				115
120	43.5	169.8	34,900	47.3	173.7	33,500	50.9	176.2	32,200	120
125	40.2	164.2	33,100	44.3	168.9	31,800	47.9	171.9	30,500	125
130	36.6	157.9	31,500	41.0	163.4	30,200	44.9	167.2	29,000	130
135	32.8	150.7	30,000	37.5	157.3	28,800	41.7	161.9	27,600	135
140	28.5	142.2	28,600	33.8	150.4	27,400	38.3	155.9	26,300	140
145	23.4	131.9	27,200	29.6	142.3	26,100	34.5	149.1	25,000	145
150	17.0	118.4	26,000	24.7	132.5	24,900	30.4	141.3	23,900	150
155	6.0	93.8	24,800	18.8	120.0	23,800	25.8	131.9	22,800	155
160				9.9	100.4	22,800	20.1	120.1	21,800	160
165							12.2	102.9	20,900	165

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	38,800 *	90
95	52.7	194.6	34,200 *	55.4	197.8	35,900 *	57.3	199.7	37,200 *	95
100	50.1	190.6	32,700 *	52.8	194.2	34,400 *	54.8	196.3	35,700 *	100
105	47.4	186.2	31,400 *	50.2	190.2	33,000 *	52.3	192.6	34,100 *	105
110	44.5	181.4	30,100 *	47.5	185.8	31,500 *	49.6	188.6	32,800 *	110
115	41.5	176.0	28,800 *	44.7	181.0	30,300 *	46.9	184.1	31,300 *	115
120	38.3	170.1	27,700 *	41.7	175.7	29,000 *	44.0	179.2	30,000 *	120
125	34.9	163.3	26,600 *	38.5	169.7	27,800 *	41.0	173.7	28,900 *	125
130	31.2	155.6	25,500 *	35.1	163.1	26,700 *	37.8	167.6	27,700 *	130
135	26.9	146.6	24,600 *	31.3	155.4	25,700 *	34.3	160.8	26,600 *	135
140	22.0	135.7	23,800 *	27.2	146.5	24,800 *	30.5	152.9	25,600 *	140
145	15.7	121.0	22,900 *	22.3	135.6	23,900 *	26.1	143.6	24,600 *	145
150	3.0	90.6	17,100 *	16.0	121.2	23,300 *	21.0	132.1	23,800 *	150
155				4.5	93.5	19,000 *	14.3	116.4	23,200 *	155
160										160
165										165
170										170
175										175



ANSI B30.5

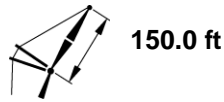
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	62.7	204.6	40,700 *							90
95	60.3	201.9	39,200 *							95
100	57.9	198.9	37,600 *							100
105	55.5	195.7	36,000 *							105
110	53.0	192.1	34,600 *	56.1	194.3	36,200 *				110
115	50.4	188.1	33,100 *	53.6	190.8	34,700 *				115
120	47.7	183.8	31,800 *	51.0	186.9	33,200				120
125	44.8	179.0	30,400 *	48.3	182.7	31,500	51.5	185.1	30,200	125
130	41.8	173.7	29,200 *	45.5	178.0	29,900	48.9	180.9	28,600	130
135	38.7	167.8	28,100 *	42.6	172.9	28,400	46.1	176.3	27,200	135
140	35.3	161.1	27,000 *	39.5	167.1	27,100	43.2	171.2	25,900	140
145	31.6	153.6	25,900 *	36.1	160.7	25,800	40.1	165.6	24,700	145
150	27.4	144.7	25,000 *	32.5	153.3	24,700	36.8	159.3	23,600	150
155	22.5	134.0	24,200 *	28.5	144.8	23,600	33.3	152.2	22,500	155
160	16.4	119.8	23,500 *	23.8	134.6	22,500	29.3	144.0	21,500	160
165	5.7	94.3	22,400 *	18.1	121.6	21,600	24.8	134.2	20,600	165
170				9.5	101.2	20,600	19.4	121.9	19,700	170
175							11.7	103.9	18,900	175

14000 S-2

ANSI B30.5

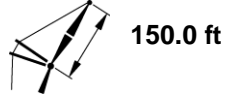


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	74.6	227.8	45,000 *b							50
55	72.6	226.4	44,100 *							55
60	70.6	224.7	42,800 *							60
65	68.6	222.9	41,000 *	70.7	224.2	43,000 *				65
70	66.5	220.8	39,300 *	68.7	222.3	41,100 *				70
75	64.4	218.5	37,500 *	66.6	220.3	39,400 *				75
80	62.3	216.0	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	31,200 *	105
110	48.3	195.2	27,200 *	50.9	199.0	28,700 *	52.8	201.4	29,800 *	110
115	45.7	190.5	26,100 *	48.4	194.8	27,500 *	50.4	197.4	28,500 *	115
120	42.9	185.4	24,900 *	45.8	190.1	26,200 *	47.8	193.1	27,300 *	120
125	40.1	179.8	23,800 *	43.1	185.1	25,100 *	45.2	188.4	26,000 *	125
130	37.0	173.5	22,800 *	40.2	179.4	24,000 *	42.4	183.1	24,900 *	130
135	33.7	166.4	21,800 *	37.1	173.2	22,900 *	39.5	177.4	23,800 *	135
140	30.1	158.4	20,900 *	33.9	166.2	22,000 *	36.4	171.0	22,800 *	140
145	26.0	149.0	20,000 *	30.3	158.2	21,100 *	33.1	163.8	21,800 *	145
150	21.2	137.6	19,300 *	26.2	148.9	20,200 *	29.4	155.5	20,900 *	150
155	15.1	122.3	18,700 *	21.5	137.6	19,400 *	25.2	145.9	20,100 *	155
160	2.9	90.8	15,300 *	15.5	122.6	18,800 *	20.3	133.9	19,300 *	160
165				4.3	93.9	17,100 *	13.8	117.6	18,700 *	165
170										170
175										175
180										180
185										185



ANSI B30.5

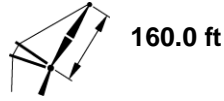
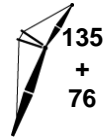
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	62.5	213.3	36,000 *							95
100	60.3	210.6	34,400 *							100
105	58.1	207.6	33,000 *							105
110	55.8	204.4	31,600 *							110
115	53.5	200.8	30,200 *	56.4	203.0	31,700 *				115
120	51.0	196.9	28,900 *	54.0	199.5	30,400 *				120
125	48.5	192.7	27,600 *	51.6	195.7	29,100 *				125
130	45.9	188.1	26,400 *	49.2	191.6	27,900 *	52.1	193.8	28,500	130
135	43.2	183.0	25,300 *	46.6	187.1	26,700 *	49.7	189.8	27,100	135
140	40.4	177.4	24,200 *	43.9	182.1	25,500 *	47.1	185.3	25,800	140
145	37.3	171.2	23,100 *	41.1	176.7	24,400 *	44.5	180.5	24,600	145
150	34.0	164.2	22,100 *	38.1	170.6	23,400 *	41.7	175.1	23,500	150
155	30.5	156.3	21,200 *	34.9	163.9	22,400 *	38.7	169.2	22,400	155
160	26.4	147.1	20,400 *	31.4	156.2	21,500 *	35.5	162.6	21,500	160
165	21.8	135.9	19,600 *	27.5	147.3	20,600 *	32.1	155.1	20,500	165
170	15.8	121.2	18,900 *	23.0	136.7	19,800 *	28.3	146.5	19,700	170
175	5.5	94.8	18,500 *	17.5	123.2	19,100 *	24.0	136.3	18,900	175
180				9.2	102.1	18,600 *	18.7	123.5	18,100	180
185							11.3	104.9	17,300	185

14000 S-2

ANSI B30.5

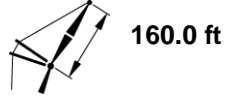


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	73.7	236.8	41,100 *							55
60	71.9	235.3	39,300 *							60
65	70.0	233.5	37,600 *							65
70	68.1	231.6	35,800 *	70.1	233.0	37,700 *				70
75	66.1	229.5	34,200 *	68.1	231.1	36,000 *				75
80	64.1	227.2	32,700 *	66.2	229.0	34,400 *	67.7	229.9	35,600 *	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-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	62.3	222.0	31,200 *							100
105	60.3	219.3	29,700 *							105
110	58.2	216.3	28,400 *							110
115	56.1	213.1	27,100 *							115
120	53.9	209.6	25,800 *	56.6	211.7	27,200 *				120
125	51.6	205.7	24,600 *	54.4	208.3	26,000 *				125
130	49.3	201.6	23,400 *	52.2	204.5	24,800 *				130
135	46.9	197.1	22,300 *	49.9	200.5	23,600 *	52.6	202.6	24,800 *	135
140	44.4	192.2	21,200 *	47.5	196.1	22,500 *	50.4	198.6	23,700 *	140
145	41.8	186.9	20,200 *	45.0	191.3	21,500 *	48.0	194.3	22,600 *	145
150	39.0	181.0	19,200 *	42.4	186.1	20,400 *	45.5	189.6	21,600 *	150
155	36.1	174.5	18,300 *	39.7	180.4	19,500 *	43.0	184.5	20,600 *	155
160	32.9	167.3	17,400 *	36.8	174.0	18,500 *	40.3	178.9	19,600 *	160
165	29.5	159.0	16,600 *	33.7	166.9	17,600 *	37.4	172.6	18,700 *	165
170	25.6	149.4	15,800 *	30.3	159.0	16,800 *	34.4	165.7	17,800 *	170
175	21.1	137.8	15,100 *	26.6	149.7	16,000 *	31.1	157.9	17,000 *	175
180	15.3	122.6	14,400 *	22.3	138.7	15,300 *	27.4	149.0	16,200 *	180
185	5.4	95.2	13,600 *	16.9	124.7	14,700 *	23.2	138.4	15,500 *	185
190				8.9	102.8	13,800 *	18.1	125.2	14,800 *	190
195							11.0	105.9	14,000 *	195

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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



ANSI B30.5

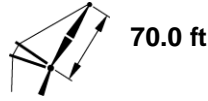
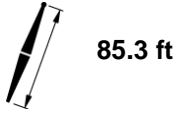
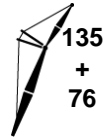
14000 S-2



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

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	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	107,300 *c			45	
50	55.9	151.0	96,100 *b	61.5	153.9	102,100 *b	65.5	155.3	106,800 *b	50
55	50.7	147.3	92,200 *	56.8	150.9	97,600 *b	61.0	152.8	98,000 b	55
60	45.2	142.7	87,500 *	51.7	147.3	89,800	56.2	149.7	87,800 b	60
65	39.1	137.2	78,500 *	46.3	143.0	81,200	51.1	146.1	79,400	65
70	32.1	130.3	70,700 *	40.3	137.7	74,100	45.6	141.6	72,400	70
75	23.3	120.7	64,000 *	33.5	131.0	68,000	39.6	136.2	66,500	75
80	8.2	103.0	48,600 *	25.1	122.1	62,700	32.6	129.3	61,300	80
85				12.4	107.4	55,200 *	23.9	120.0	56,900	85
90							9.8	103.5	52,800	90
95										95
100										100
105										105
110										110

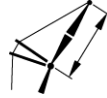


ANSI B30.5

14000 S-2



85.3 ft



70.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	76,400 b							65
70	53.4	146.0	69,700							70
75	48.1	141.9	64,000	55.4	145.0	61,500 b				75
80	42.3	136.9	59,000	50.3	141.2	56,800				80
85	35.8	130.8	54,800	44.7	136.6	52,600	52.2	139.6	50,600	85
90	28.1	122.8	51,000	38.6	131.0	49,000	46.8	135.4	47,100	90
95	17.5	110.9	47,600	31.5	123.9	45,800	40.9	130.2	44,000	95
100				22.4	114.1	42,900	34.2	123.7	41,300	100
105				5.2	93.7	40,200	26.0	115.0	38,800	105
110							14.0	101.3	36,500	110

14000 S-2

ANSI B30.5

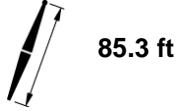


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
32	74.6	170.2	103,200 *c							32
34	73.1	169.6	103,100 *c							34
36	71.6	168.9	102,200 *c							36
38	70.1	168.2	100,100 *c							38
40	68.5	167.5	98,000 *b							40
45	64.6	165.3	93,200 *b	69.2	167.2	99,400 *c				45
50	60.6	162.7	88,900 *b	65.3	165.1	94,700 *b				50
55	56.4	159.7	85,000 *	61.3	162.6	90,300 *b	64.9	164.0	94,300 *b	55
60	52.0	156.1	81,500 *	57.2	159.6	86,400 *	60.8	161.5	87,500 b	60
65	47.3	151.8	78,300 *	52.8	156.1	81,000	56.7	158.4	79,100	65
70	42.2	146.8	71,100 *	48.2	152.0	73,800	52.3	154.9	72,200	70
75	36.5	140.7	64,600 *	43.1	147.1	67,800	47.6	150.6	66,200	75
80	30.0	133.0	59,000 *	37.6	141.2	62,600	42.5	145.6	61,100	80
85	21.8	122.7	54,000 *	31.3	133.9	58,000	36.9	139.6	56,700	85
90	7.6	103.7	42,500 *	23.5	124.2	54,000	30.4	132.1	52,800	90
95				11.6	108.4	48,500 *	22.4	122.1	49,300	95
100							9.2	104.4	46,100	100
105										105
110										110
115										115
120										120



ANSI B30.5

14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65	62.7	160.9	76,100 b							65
70	58.5	158.0	69,400							70
75	54.2	154.7	63,700							75
80	49.7	150.8	58,800	56.0	153.7	56,400				80
85	44.8	146.2	54,500	51.6	150.1	52,300				85
90	39.5	140.7	50,700	46.8	145.7	48,700				90
95	33.4	133.9	47,400	41.7	140.6	45,500	48.6	144.3	43,700	95
100	26.2	125.2	44,500	36.0	134.4	42,700	43.6	139.5	40,900	100
105	16.4	112.4	41,700	29.4	126.6	40,100	38.1	133.8	38,500	105
110				20.9	116.0	37,800	31.9	126.6	36,300	110
115				4.9	94.1	35,600	24.3	117.3	34,200	115
120							13.1	102.5	32,300	120

14000 S-2

ANSI B30.5



85.3 ft



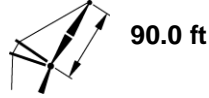
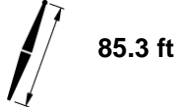
90.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	79,200 *b	67.8	174.9	82,500 *b	55
60	56.8	168.4	71,500 *	61.2	171.2	75,800 *	64.3	172.7	79,000 *b	60
65	52.9	164.8	68,600 *	57.5	168.3	72,700 *	60.8	170.1	75,700 *	65
70	48.8	160.8	66,000 *	53.6	164.8	69,700 *	57.0	167.1	72,000 *	70
75	44.4	156.0	63,600 *	49.6	160.9	67,000 *	53.2	163.6	66,100 *	75
80	39.7	150.5	59,700 *	45.2	156.3	62,400 *	49.1	159.6	61,000 *	80
85	34.4	143.9	54,900 *	40.6	150.9	57,900 *	44.7	154.9	56,600 *	85
90	28.2	135.6	50,600 *	35.4	144.5	54,000 *	40.0	149.4	52,700 *	90
95	20.5	124.6	46,700 *	29.4	136.6	50,400 *	34.7	142.9	49,300 *	95
100	7.2	104.3	37,200 *	22.1	126.3	47,300 *	28.7	134.8	46,200 *	100
105				10.9	109.4	42,400 *	21.1	124.0	43,400 *	105
110							8.7	105.2	40,800 *	110
115										115
120										120
125										125
130										130



ANSI B30.5

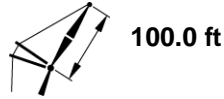
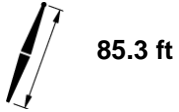
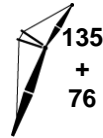
14000 S-2



	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	62.4	169.5	69,100							70
75	58.7	166.7	63,400							75
80	54.9	163.4	58,600							80
85	50.9	159.6	54,300	56.5	162.4	52,100				85
90	46.7	155.3	50,600	52.6	158.8	48,500				90
95	42.1	150.2	47,300	48.4	154.7	45,300				95
100	37.1	144.1	44,300	44.0	149.9	42,500	49.9	153.2	40,700	100
105	31.5	136.8	41,700	39.2	144.3	40,000	45.7	148.7	38,300	105
110	24.7	127.4	39,300	33.9	137.6	37,700	41.0	143.4	36,100	110
115	15.4	113.8	37,100	27.7	129.1	35,600	35.9	137.1	34,100	115
120				19.7	117.8	33,700	30.0	129.4	32,300	120
125				4.6	94.6	31,800	22.9	119.3	30,600	125
130							12.4	103.6	29,000	130

14000 S-2

ANSI B30.5

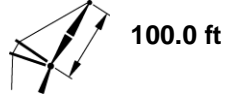
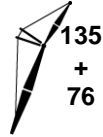


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38										38
40										40
45										45
50				70.5	186.6	77,500 *b				50
55				67.4	184.7	73,900 *b				55
60				64.3	182.5	70,600 *	67.1	183.7	73,500 *b	60
65				61.1	179.9	67,400 *	63.9	181.4	70,300 *	65
70				57.7	176.9	64,500 *	60.7	178.8	67,200 *	70
75				54.3	173.6	61,800 *	57.3	175.8	64,400 *	75
80				50.7	169.7	59,300 *	53.9	172.4	60,700 *	80
85				46.9	165.4	56,900 *	50.2	168.5	56,300 *	85
90				42.8	160.3	53,700 *	46.4	164.0	52,400 *	90
95				38.4	154.5	50,200 *	42.3	158.9	49,000 *	95
100				33.5	147.6	47,100 *	37.8	152.9	46,000 *	100
105				27.9	139.2	44,300 *	32.9	145.9	43,200 *	105
110				21.0	128.2	41,100 *	27.2	137.2	40,700 *	110
115				10.3	110.3	37,200 *	20.0	125.8	38,500 *	115
120							8.2	105.9	36,300 *	120
125										125
130										130
135										135
140										140



ANSI B30.5

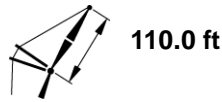
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	62.1	178.2	63,100							75
80	58.8	175.4	58,200							80
85	55.4	172.1	54,000							85
90	51.9	168.4	50,300	56.8	171.1	48,100				90
95	48.1	164.3	47,000	53.3	167.6	45,000				95
100	44.2	159.4	44,100	49.7	163.6	42,200				100
105	39.9	153.9	41,400	45.8	159.1	39,700	51.0	162.1	37,900	105
110	35.2	147.4	39,000	41.7	153.8	37,400	47.2	157.7	35,700	110
115	29.8	139.5	36,900	37.1	147.7	35,300	43.2	152.8	33,800	115
120	23.4	129.6	34,900	32.1	140.5	33,400	38.8	147.0	31,900	120
125	14.6	115.1	33,100	26.2	131.6	31,700	34.0	140.2	30,300	125
130				18.7	119.5	30,100	28.5	132.0	28,800	130
135				4.3	94.9	28,500	21.7	121.3	27,300	135
140							11.7	104.7	26,000	140

14000 S-2

ANSI B30.5

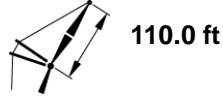
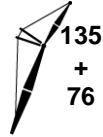


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40	74.6	199.1	74,900 *c							40
45	71.8	197.6	71,900 *b							45
50	69.1	195.8	68,900 *b							50
55	66.3	193.7	66,200 *	69.6	195.5	69,700 *b				55
60	63.4	191.4	63,600 *	66.8	193.5	67,100 *				60
65	60.4	188.7	61,100 *	63.9	191.2	64,400 *	66.4	192.4	66,700 *	65
70	57.4	185.7	58,600 *	61.0	188.6	61,900 *	63.6	190.1	64,200 *	70
75	54.2	182.3	56,200 *	57.9	185.6	59,400 *	60.6	187.4	61,700 *	75
80	51.0	178.5	54,000 *	54.8	182.3	57,000 *	57.6	184.4	59,300 *	80
85	47.5	174.2	52,000 *	51.6	178.5	54,700 *	54.4	181.1	56,200 *	85
90	43.9	169.3	50,000 *	48.2	174.3	52,700 *	51.2	177.3	52,400 *	90
95	40.0	163.7	47,100 *	44.6	169.6	50,200 *	47.7	173.0	49,000 *	95
100	35.7	157.3	43,800 *	40.7	164.1	47,100 *	44.1	168.2	45,900 *	100
105	31.0	149.7	40,800 *	36.5	157.9	44,300 *	40.2	162.6	43,200 *	105
110	25.5	140.4	38,100 *	31.9	150.5	41,400 *	36.0	156.3	40,700 *	110
115	18.5	128.0	35,200 *	26.6	141.6	38,700 *	31.3	148.8	38,500 *	115
120	6.5	105.5	27,200 *	20.0	130.0	36,200 *	25.9	139.6	36,500 *	120
125				9.9	111.2	31,000 *	19.1	127.5	34,600 *	125
130							7.8	106.6	31,200 *	130
135										135
140										140
145										145
150										150



ANSI B30.5

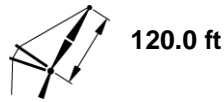
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	61.9	186.9	58,100							80
85	58.9	184.0	53,900							85
90	55.8	180.8	50,200							90
95	52.6	177.2	46,900	57.1	179.7	44,900				95
100	49.3	173.2	44,000	54.0	176.3	42,100				100
105	45.8	168.6	41,400	50.7	172.5	39,600				105
110	42.0	163.4	39,000	47.2	168.1	37,300	51.9	170.9	35,700	110
115	37.9	157.4	36,900	43.6	163.2	35,300	48.5	166.7	33,700	115
120	33.5	150.5	34,900	39.6	157.5	33,400	44.9	162.0	31,900	120
125	28.4	142.1	33,100	35.4	151.0	31,700	41.1	156.6	30,300	125
130	22.3	131.6	31,500	30.6	143.3	30,100	36.9	150.5	28,800	130
135	14.0	116.3	29,900	25.0	133.8	28,600	32.4	143.2	27,400	135
140				17.8	121.1	27,300	27.1	134.5	26,100	140
145				4.1	95.3	25,900	20.7	123.2	24,800	145
150							11.2	105.7	23,700	150

14000 S-2

ANSI B30.5

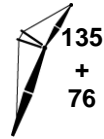


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
45	73.4	208.1	66,600 *b						45	
50	70.9	206.4	63,800 *b						50	
55	68.3	204.6	61,100 *						55	
60	65.7	202.5	58,600 *	68.8	204.3	61,800 *			60	
65	63.1	200.1	56,200 *	66.2	202.2	59,300 *			65	
70	60.4	197.4	54,000 *	63.6	199.9	57,000 *	65.9	201.1	59,000 *	70
75	57.6	194.4	51,800 *	60.9	197.2	54,800 *	63.3	198.8	56,700 *	75
80	54.7	191.0	49,700 *	58.1	194.3	52,600 *	60.6	196.1	54,500 *	80
85	51.7	187.3	47,800 *	55.3	191.0	50,400 *	57.8	193.1	52,400 *	85
90	48.6	183.1	45,800 *	52.3	187.3	48,400 *	54.9	189.8	50,400 *	90
95	45.4	178.5	44,000 *	49.2	183.2	46,500 *	51.9	186.1	48,300 *	95
100	41.9	173.2	42,300 *	46.0	178.7	44,600 *	48.8	181.9	45,600 *	100
105	38.2	167.3	40,700 *	42.6	173.6	42,800 *	45.6	177.3	42,900 *	105
110	34.2	160.4	38,100 *	38.9	167.7	41,200 *	42.1	172.1	40,500 *	110
115	29.6	152.4	35,700 *	34.9	161.1	38,700 *	38.5	166.2	38,300 *	115
120	24.4	142.6	33,500 *	30.5	153.3	36,200 *	34.4	159.4	36,200 *	120
125	17.7	129.6	31,000 *	25.4	143.9	34,000 *	30.0	151.5	34,400 *	125
130	6.2	106.1	24,000 *	19.1	131.7	31,900 *	24.8	141.8	32,700 *	130
135				9.4	112.1	27,500 *	18.2	129.1	31,100 *	135
140							7.5	107.3	27,700 *	140
145										145
150										150
155										155
160										160



ANSI B30.5

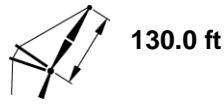
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
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										110
115										115
120										120
125										125
130										130
135										135
140										140
145										145
150										150
155										155
160										160

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	48,300 *	75
80	57.8	203.0	42,600 *	60.8	205.9	45,000 *	63.0	207.4	46,600 *	80
85	55.1	199.7	40,900 *	58.3	202.9	43,100 *	60.5	204.8	44,800 *	85
90	52.4	196.1	39,300 *	55.6	199.7	41,400 *	58.0	201.8	43,000 *	90
95	49.6	192.0	37,800 *	52.9	196.1	39,800 *	55.3	198.5	41,300 *	95
100	46.6	187.5	36,300 *	50.1	192.1	38,300 *	52.6	194.9	39,700 *	100
105	43.5	182.5	34,900 *	47.2	187.7	36,800 *	49.8	190.8	38,200 *	105
110	40.2	177.0	33,600 *	44.1	182.8	35,300 *	46.8	186.4	36,700 *	110
115	36.7	170.7	32,400 *	40.8	177.4	34,000 *	43.7	181.4	35,300 *	115
120	32.8	163.4	31,300 *	37.3	171.2	32,800 *	40.4	175.9	34,000 *	120
125	28.5	155.0	30,300 *	33.5	164.2	31,600 *	36.9	169.6	32,700 *	125
130	23.4	144.7	29,300 *	29.3	156.0	30,600 *	33.0	162.5	31,700 *	130
135	17.0	131.1	27,700 *	24.4	146.1	29,700 *	28.8	154.1	30,600 *	135
140	6.0	106.6	21,500 *	18.4	133.4	28,500 *	23.8	144.0	29,500 *	140
145				9.1	112.9	24,700 *	17.5	130.7	28,100 *	145
150							7.2	107.9	24,900 *	150
155										155
160										160
165										165
170										170



ANSI B30.5

14000 S-2



85.3 ft

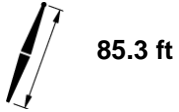
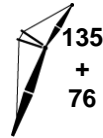


130.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	61.6	204.2	45,300 *							90
95	59.1	201.4	43,600 *							95
100	56.5	198.2	42,000 *							100
105	53.8	194.7	40,400 *	57.6	197.1	39,000				105
110	51.0	190.9	38,500	54.9	193.8	36,800				110
115	48.1	186.6	36,400	52.2	190.1	34,700				115
120	45.1	181.9	34,400	49.3	186.0	32,900				120
125	41.9	176.6	32,700	46.4	181.4	31,200	50.4	184.5	29,700	125
130	38.5	170.7	31,000	43.2	176.4	29,600	47.4	180.1	28,200	130
135	34.8	164.0	29,500	39.9	170.8	28,200	44.4	175.3	26,800	135
140	30.7	156.2	28,100	36.3	164.4	26,800	41.1	169.9	25,500	140
145	26.1	147.0	26,800	32.4	157.1	25,600	37.7	163.8	24,300	145
150	20.5	135.4	25,600	28.1	148.5	24,400	33.9	156.8	23,200	150
155	12.8	118.7	24,500	22.9	138.1	23,300	29.7	148.8	22,200	155
160				16.4	124.1	22,300	24.9	139.1	21,200	160
165				3.8	96.0	21,300	19.0	126.7	20,300	165
170							10.3	107.5	19,400	170

14000 S-2

ANSI B30.5

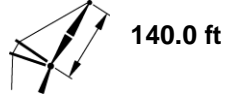


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	73.7	227.4	47,700 *b							50
55	71.6	225.9	46,700 *							55
60	69.4	224.1	45,800 *							60
65	67.2	222.1	44,400 *	69.8	223.7	46,100 *				65
70	64.9	219.9	42,500 *	67.6	221.8	44,800 *				70
75	62.7	217.4	40,700 *	65.4	219.6	43,000 *	67.3	220.8	44,500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



ANSI B30.5

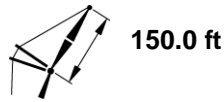
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	61.5	212.9	39,800 *							95
100	59.2	210.0	38,300 *							100
105	56.8	206.9	36,700 *							105
110	54.3	203.4	35,300 *	57.7	205.8	36,400				110
115	51.7	199.7	33,800 *	55.3	202.5	34,400				115
120	49.1	195.5	32,500 *	52.8	198.8	32,500				120
125	46.3	191.0	31,200 *	50.1	194.9	30,800				125
130	43.4	186.0	29,900 *	47.4	190.5	29,300	51.1	193.3	27,800	130
135	40.3	180.4	28,700 *	44.6	185.6	27,800	48.4	189.1	26,400	135
140	37.0	174.1	27,600 *	41.6	180.3	26,500	45.6	184.4	25,200	140
145	33.5	167.1	26,500 *	38.4	174.3	25,300	42.7	179.3	24,000	145
150	29.6	158.9	25,400	35.0	167.6	24,100	39.6	173.5	22,900	150
155	25.1	149.2	24,200	31.2	160.0	23,000	36.2	167.1	21,900	155
160	19.8	137.1	23,200	27.0	151.0	22,000	32.6	159.8	20,900	160
165	12.4	119.8	22,200	22.1	140.1	21,100	28.6	151.4	20,000	165
170				15.8	125.5	20,200	24.0	141.2	19,100	170
175				3.7	96.3	19,300	18.3	128.3	18,300	175
180							9.9	108.4	17,500	180

14000 S-2

ANSI B30.5

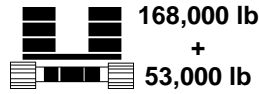
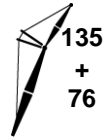


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
50	74.8	237.8	44,600 *b						50	
55	72.8	236.4	43,700 *						55	
60	70.8	234.7	42,800 *						60	
65	68.8	232.9	41,000 *						65	
70	66.7	230.8	39,300 *	69.2	232.6	41,400 *			70	
75	64.6	228.6	37,600 *	67.1	230.6	39,600 *			75	
80	62.5	226.1	36,000 *	65.0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



ANSI B30.5

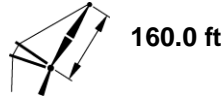
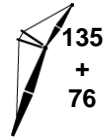
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	35,100 *							100
105	59.2	218.7	33,600 *							105
110	57.0	215.6	32,200 *							110
115	54.7	212.2	30,800 *	57.9	214.4	32,500 *				115
120	52.3	208.5	29,500 *	55.6	211.2	31,200 *				120
125	49.8	204.4	28,300 *	53.3	207.6	29,900 *				125
130	47.3	200.0	27,000 *	50.8	203.7	28,700 *				130
135	44.6	195.2	25,900 *	48.3	199.4	27,500 *	51.7	202.1	26,300	135
140	41.8	189.9	24,800 *	45.7	194.8	26,300 *	49.3	198.0	25,100	140
145	38.9	184.0	23,700 *	43.0	189.7	25,200	46.7	193.5	23,900	145
150	35.7	177.4	22,700 *	40.1	184.0	24,000	44.0	188.5	22,800	150
155	32.3	170.0	21,700 *	37.1	177.7	23,000	41.2	183.1	21,800	155
160	28.6	161.5	20,800 *	33.8	170.7	22,000	38.2	177.1	20,800	160
165	24.3	151.4	20,000 *	30.1	162.7	21,000	35.0	170.3	19,900	165
170	19.1	138.9	19,300 *	26.1	153.3	20,100	31.5	162.7	19,100	170
175	11.9	120.8	18,700 *	21.3	142.0	19,300	27.6	153.9	18,300	175
180				15.3	126.8	18,500	23.2	143.3	17,500	180
185				3.5	96.6	17,700	17.7	129.9	16,800	185
190							9.6	109.3	16,100	190

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ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	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	18,300 *	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	16,600 *	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	15,100 *	170
175				8.2	115.1	13,700 *	15.8	135.1	14,500 *	175
180							6.5	109.7	13,600 *	180
185										185
190										190
195										195
200										200



ANSI B30.5

14000 S-2



85.3 ft

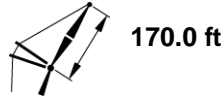


160.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	30,400 *							105
110	59.3	227.3	29,000 *							110
115	57.2	224.2	27,800 *							115
120	55.0	220.9	26,400 *							120
125	52.8	217.2	25,200 *	55.9	219.9	26,800 *				125
130	50.5	213.3	24,000 *	53.7	216.3	25,600 *				130
135	48.1	209.0	22,800 *	51.4	212.5	24,400 *				135
140	45.7	204.3	21,800 *	49.1	208.4	23,300 *	52.3	210.9	24,600 *	140
145	43.1	199.2	20,700 *	46.7	203.8	22,200 *	50.0	206.9	23,500 *	145
150	40.5	193.6	19,700 *	44.2	198.9	21,100 *	47.6	202.5	22,400 *	150
155	37.6	187.4	18,800 *	41.6	193.5	20,100 *	45.1	197.7	21,400 *	155
160	34.6	180.6	17,900 *	38.8	187.6	19,200 *	42.5	192.5	20,400 *	160
165	31.3	172.9	17,100 *	35.8	181.0	18,300 *	39.8	186.8	19,500 *	165
170	27.6	164.0	16,200 *	32.7	173.7	17,400 *	36.9	180.5	18,600 *	170
175	23.5	153.6	15,500 *	29.2	165.4	16,600 *	33.8	173.4	17,700 *	175
180	18.5	140.5	14,800 *	25.2	155.6	15,900 *	30.5	165.5	16,900 *	180
185	11.6	121.9	14,000 *	20.7	143.8	15,100 *	26.7	156.3	16,100 *	185
190				14.8	128.2	14,400 *	22.4	145.4	15,400 *	190
195				3.4	96.9	13,600 *	17.1	131.4	14,800 *	195
200							9.3	110.1	13,900 *	200

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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-2



85.3 ft

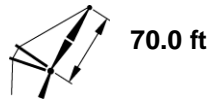
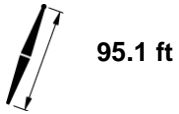


170.0 ft

ft	75°			70°			65°			ft
	ft	lb	ft	ft	lb	ft	ft	lb		
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	26,500 *							110
115	59.3	236.0	25,300 *							115
120	57.3	232.9	24,000 *							120
125	55.3	229.6	22,800 *							125
130	53.2	226.0	21,700 *	56.1	228.5	23,200 *				130
135	51.1	222.1	20,600 *	54.1	225.1	22,000 *				135
140	48.9	217.9	19,600 *	52.0	221.3	21,000 *				140
145	46.6	213.4	18,500 *	49.8	217.2	19,900 *	52.7	219.6	21,200 *	145
150	44.3	208.4	17,600 *	47.6	212.8	18,900 *	50.6	215.7	20,100 *	150
155	41.8	203.1	16,700 *	45.2	208.1	17,900 *	48.4	211.4	19,200 *	155
160	39.2	197.2	15,800 *	42.8	202.9	17,000 *	46.1	206.8	18,200 *	160
165	36.4	190.8	14,900 *	40.3	197.3	16,100 *	43.7	201.8	17,300 *	165
170	33.5	183.6	14,200 *	37.6	191.1	15,200 *	41.2	196.3	16,400 *	170
175	30.3	175.6	13,200 *	34.7	184.2	14,500 *	38.6	190.3	15,600 *	175
180	26.8	166.4	12,300 *	31.7	176.6	13,700 *	35.8	183.7	14,700 *	180
185	22.8	155.6	11,400 *	28.3	167.9	12,800 *	32.8	176.4	14,000 *	185
190	17.9	142.1	10,700 *	24.5	157.8	11,900 *	29.5	168.1	13,100 *	190
195	11.2	122.9	10,000 *	20.0	145.6	11,000 *	25.9	158.6	12,200 *	195
200				14.3	129.4	10,200 *	21.7	147.3	11,300 *	200
205				3.3	97.2	9,700 *	16.6	132.9	10,500 *	205
210							9.0	110.9	9,900 *	210

14000 S-2

ANSI B30.5

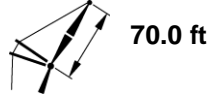
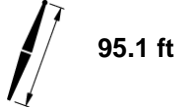
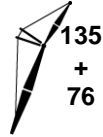


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
30	74.4	170.3	110,200 *d							30
32	72.7	169.7	110,200 *c							32
34	71.0	169.1	110,200 *c							34
36	69.3	168.4	110,200 *c							36
38	67.5	167.6	107,900 *c							38
40	65.7	166.7	105,700 *c							40
45	61.2	164.2	100,700 *b	67.2	166.6	108,100 *c				45
50	56.4	161.2	96,300 *b	62.6	164.3	102,900 *b	67.1	165.8	108,100 *c	50
55	51.3	157.5	92,300 *	57.9	161.5	98,400 *b	62.6	163.4	97,300 b	55
60	45.8	153.1	88,600 *	53.0	158.0	89,400 b	57.8	160.6	87,100 b	60
65	39.8	147.7	79,500 *	47.6	153.9	80,900	52.9	157.1	78,800 b	65
70	32.9	140.9	72,000 *	41.8	148.8	73,800	47.5	152.9	71,900	70
75	24.3	131.7	65,000 *	35.2	142.5	67,700	41.7	147.9	66,000	75
80	10.7	115.9	49,800 *	27.4	134.3	62,500	35.1	141.6	60,900	80
85				16.3	121.8	57,900	27.2	133.3	56,500	85
90							16.1	120.7	52,500	90
95										95
100										100
105										105
110										110
115										115



ANSI B30.5

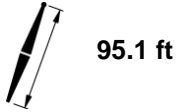
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	75,400 b							65
70	55.9	157.3	68,800 b							70
75	50.8	153.6	63,100							75
80	45.3	149.1	58,300	53.8	153.1	55,700 b				80
85	39.3	143.6	54,100	48.5	149.1	51,600				85
90	32.2	136.6	50,300	42.8	144.2	48,100	51.3	147.9	45,900	90
95	23.5	127.2	47,000	36.4	138.1	44,900	45.9	143.5	42,900	95
100	8.6	109.8	44,000	28.8	130.3	42,100	39.8	138.1	40,200	100
105				18.6	118.9	39,600	32.9	131.3	37,800	105
110							24.4	122.2	35,600	110
115							10.8	106.4	33,500	115

14000 S-2

ANSI B30.5

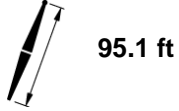


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
32	74.9	180.1	100,700 *c							32
34	73.5	179.6	100,700 *c							34
36	72.0	178.9	100,600 *c							36
38	70.4	178.3	99,900 *c							38
40	68.9	177.5	97,900 *c							40
45	65.0	175.4	93,200 *b	70.1	177.4	100,000 *c				45
50	61.0	172.9	89,000 *b	66.3	175.4	95,300 *b				50
55	56.8	169.8	85,100 *	62.3	173.0	91,000 *b	66.2	174.5	95,300 *b	55
60	52.4	166.3	81,700 *	58.2	170.1	87,100 *b	62.2	172.1	86,800 b	60
65	47.8	162.1	78,500 *	53.9	166.8	80,600	58.1	169.2	78,500 b	65
70	42.7	157.1	71,900 *	49.3	162.8	73,500	53.8	165.8	71,600	70
75	37.1	151.2	65,600 *	44.4	158.1	67,500	49.2	161.9	65,700	75
80	30.7	143.7	60,200 *	39.0	152.5	62,300	44.3	157.2	60,700	80
85	22.7	133.8	55,600 *	32.9	145.6	57,800	38.9	151.5	56,300	85
90	10.0	116.8	43,900 *	25.6	136.6	53,800	32.8	144.6	52,400	90
95				15.3	123.2	50,200	25.4	135.6	49,000	95
100							15.0	122.0	45,800	100
105										105
110										110
115										115
120										120
125										125



ANSI B30.5

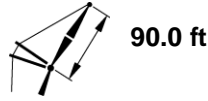
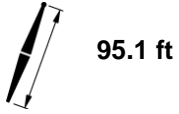
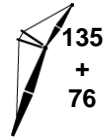
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	68,400 b							70
75	56.5	166.0	62,800							75
80	52.0	162.4	58,000							80
85	47.3	158.1	53,800	54.6	161.8	51,300				85
90	42.3	153.1	50,100	50.1	158.0	47,700				90
95	36.6	147.0	46,800	45.2	153.4	44,600	52.5	156.7	42,500	95
100	30.1	139.4	43,900	39.9	148.0	41,800	47.8	152.5	39,800	100
105	21.9	129.2	41,200	34.0	141.3	39,300	42.7	147.6	37,500	105
110	8.1	110.6	38,700	26.9	132.8	37,100	37.2	141.6	35,300	110
115				17.4	120.5	35,000	30.7	134.2	33,300	115
120							22.8	124.2	31,500	120
125							10.1	107.3	29,800	125

14000 S-2

ANSI B30.5

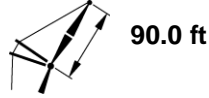
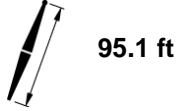


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36										36
38										38
40										40
45										45
50										50
55				69.1	186.2	83,400 *b				55
60				65.6	184.1	79,700 *b				60
65				62.1	181.6	76,400 *b	65.5	183.2	79,800 *b	65
70				58.4	178.8	73,200 *	62.0	180.7	76,400 *b	70
75				54.6	175.5	70,300 *	58.3	177.9	71,400	75
80				50.6	171.6	67,300	54.5	174.6	65,500	80
85				46.3	167.2	62,200	50.5	170.7	60,500	85
90				41.7	162.0	57,700	46.2	166.3	56,100	90
95				36.7	155.9	53,700	41.6	161.1	52,300	95
100				31.0	148.4	50,200	36.6	154.9	48,900	100
105				24.1	138.9	47,100	30.9	147.4	45,800	105
110				14.4	124.5	44,200	23.9	137.8	43,100	110
115							14.2	123.3	40,600	115
120										120
125										125
130										130
135										135



ANSI B30.5

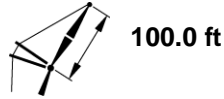
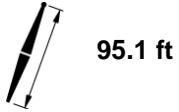
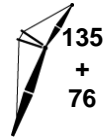
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	60.6	177.7	62,600							75
80	56.9	174.7	57,800							80
85	53.0	171.1	53,600							85
90	48.9	167.1	49,900	55.2	170.5	47,500				90
95	44.5	162.4	46,600	51.2	166.8	44,400				95
100	39.7	156.8	43,700	47.0	162.5	41,600				100
105	34.5	150.2	41,100	42.5	157.4	39,200	49.2	161.4	37,200	105
110	28.4	142.0	38,800	37.6	151.5	36,900	44.9	156.8	35,100	110
115	20.7	131.1	36,600	32.0	144.3	34,900	40.2	151.3	33,200	115
120	7.6	111.2	34,600	25.3	135.1	33,000	35.0	144.8	31,400	120
125				16.4	122.0	31,300	29.0	136.8	29,700	125
130							21.5	126.2	28,200	130
135							9.5	108.2	26,800	135

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	74,400 *b				55
60	60.8	190.2	66,500 *	65.1	192.8	71,100 *b				60
65	57.5	187.2	63,600 *	61.9	190.3	67,900 *	65.0	191.9	71,100 *b	65
70	54.0	183.8	60,900 *	58.6	187.4	65,000 *	61.8	189.4	68,000 *	70
75	50.4	179.9	58,500 *	55.1	184.2	62,300 *	58.5	186.6	65,200 *	75
80	46.5	175.5	56,200 *	51.6	180.5	59,800 *	55.1	183.3	60,200	80
85	42.5	170.4	54,100 *	47.8	176.2	57,400 *	51.5	179.5	55,800	85
90	38.0	164.5	51,600 *	43.8	171.4	53,500	47.7	175.3	52,000	90
95	33.1	157.5	48,000 *	39.5	165.7	50,000	43.7	170.4	48,600	95
100	27.4	148.9	44,800 *	34.7	159.1	46,900	39.4	164.8	45,600	100
105	20.3	137.6	41,800 *	29.3	151.1	44,100	34.6	158.1	42,900	105
110	9.0	118.5	34,500 *	22.8	140.9	41,500	29.2	150.1	40,400	110
115				13.7	125.7	39,200	22.7	139.9	38,200	115
120							13.4	124.5	36,100	120
125										125
130										130
135										135
140										140
145										145



ANSI B30.5

14000 S-2



95.1 ft

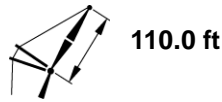


100.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	60.5	186.4	57,400							80
85	57.2	183.3	53,200							85
90	53.7	179.9	49,500							90
95	50.1	176.0	46,300	55.7	179.2	44,000				95
100	46.2	171.5	43,400	52.2	175.6	41,300				100
105	42.1	166.3	40,800	48.4	171.4	38,800				105
110	37.6	160.4	38,500	44.5	166.7	36,600	50.4	170.3	34,700	110
115	32.6	153.2	36,400	40.2	161.2	34,600	46.6	165.9	32,800	115
120	26.9	144.5	34,400	35.6	154.8	32,700	42.5	160.8	31,000	120
125	19.6	132.9	32,600	30.3	147.1	31,000	38.0	154.9	29,400	125
130	7.2	111.9	30,900	24.0	137.3	29,400	33.1	147.9	27,900	130
135				15.5	123.4	28,000	27.4	139.3	26,500	135
140							20.4	128.1	25,300	140
145							9.1	109.0	24,000	145

14000 S-2

ANSI B30.5

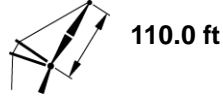
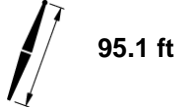


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40	74.8	209.1	74,500 *c							40
45	72.1	207.6	71,500 *b							45
50	69.4	205.8	68,700 *b							50
55	66.5	203.8	66,100 *	70.2	205.7	69,800 *b				55
60	63.7	201.5	63,500 *	67.5	203.7	67,200 *				60
65	60.7	198.8	61,100 *	64.6	201.5	64,700 *	67.4	202.9	67,100 *	65
70	57.7	195.9	58,700 *	61.7	199.0	62,300 *	64.6	200.6	64,700 *	70
75	54.6	192.5	56,300 *	58.7	196.1	59,900 *	61.6	198.1	62,300 *	75
80	51.3	188.7	54,100 *	55.6	192.9	57,400 *	58.6	195.2	60,000 *	80
85	47.9	184.5	52,100 *	52.4	189.2	55,200 *	55.5	192.0	55,800	85
90	44.3	179.6	50,200 *	49.0	185.2	53,200 *	52.3	188.3	51,900	90
95	40.4	174.2	48,500 *	45.4	180.5	50,000	48.9	184.2	48,600	95
100	36.2	167.8	45,100 *	41.7	175.3	46,900	45.4	179.6	45,600	100
105	31.5	160.4	42,100 *	37.6	169.2	44,100	41.6	174.3	42,900	105
110	26.1	151.3	39,300 *	33.1	162.2	41,600	37.5	168.3	40,400	110
115	19.4	139.4	36,800 *	27.9	153.7	39,300	33.0	161.2	38,200	115
120	8.6	119.2	29,400 *	21.7	142.9	37,200	27.8	152.7	36,200	120
125				13.0	126.9	34,500 *	21.6	141.8	34,300	125
130							12.8	125.7	32,600	130
135										135
140										140
145										145
150										150
155										155



ANSI B30.5

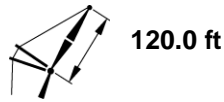
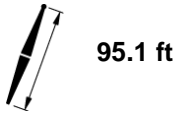
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	60.5	195.0	53,100							85
90	57.4	192.0	49,500							90
95	54.3	188.6	46,300							95
100	51.0	184.8	43,400	56.1	187.9	41,200				100
105	47.6	180.5	40,800	52.9	184.4	38,800				105
110	43.9	175.6	38,500	49.6	180.3	36,500				110
115	40.0	170.1	36,400	46.0	175.8	34,500	51.3	179.1	32,700	115
120	35.8	163.7	34,400	42.3	170.7	32,700	47.9	174.9	31,000	120
125	31.1	156.1	32,700	38.3	164.8	31,000	44.3	170.1	29,400	125
130	25.6	146.8	31,000	33.9	157.9	29,500	40.4	164.6	27,900	130
135	18.7	134.5	29,500	28.9	149.7	28,000	36.2	158.2	26,600	135
140	6.9	112.5	28,000	22.9	139.4	26,700	31.5	150.8	25,300	140
145				14.8	124.7	25,400	26.1	141.7	24,100	145
150							19.4	129.8	23,000	150
155							8.6	109.8	21,900	155

14000 S-2

ANSI B30.5

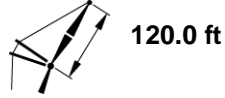
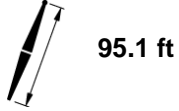


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	73.7	218.0	66,300 *b							45
50	71.1	216.4	63,500 *b							50
55	68.6	214.6	61,000 *							55
60	66.0	212.5	58,500 *	69.4	214.5	62,000 *				60
65	63.4	210.2	56,200 *	66.9	212.5	59,600 *				65
70	60.7	207.5	54,000 *	64.2	210.2	57,200 *	66.8	211.6	59,400 *	70
75	57.9	204.5	51,900 *	61.5	207.6	55,000 *	64.2	209.3	57,200 *	75
80	55.0	201.2	49,800 *	58.8	204.8	52,900 *	61.5	206.7	55,100 *	80
85	52.1	197.5	47,900 *	56.0	201.6	50,800 *	58.7	203.9	52,900 *	85
90	49.0	193.4	46,000 *	53.0	198.0	48,900 *	55.9	200.7	51,000 *	90
95	45.7	188.8	44,200 *	50.0	194.0	46,900 *	53.0	197.1	48,300	95
100	42.3	183.6	42,400 *	46.8	189.6	45,000 *	49.9	193.1	45,300	100
105	38.6	177.7	40,900 *	43.4	184.6	43,300 *	46.7	188.7	42,600	105
110	34.6	171.0	39,300 *	39.8	179.0	41,300	43.3	183.7	40,100	110
115	30.1	163.1	36,800 *	35.9	172.6	39,100	39.7	178.0	37,900	115
120	25.0	153.6	34,600 *	31.6	165.1	37,000	35.9	171.6	35,900	120
125	18.5	141.0	32,500 *	26.7	156.1	35,100	31.5	164.1	34,100	125
130	8.2	120.0	26,100 *	20.8	144.8	33,200 *	26.6	155.1	32,400	130
135				12.5	128.0	30,600 *	20.7	143.7	30,800	135
140							12.3	126.8	29,300	140
145										145
150										150
155										155
160										160
165										165



ANSI B30.5

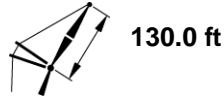
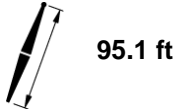
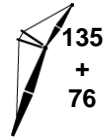
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	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	49,100							90
95	57.7	200.7	45,900							95
100	54.8	197.3	43,000							100
105	51.8	193.6	40,500	56.4	196.6	38,400				105
110	48.7	189.4	38,100	53.5	193.1	36,200				110
115	45.4	184.8	36,000	50.5	189.2	34,200				115
120	42.0	179.6	34,100	47.3	184.8	32,300	52.1	187.9	30,600	120
125	38.3	173.6	32,400	44.0	179.9	30,700	49.0	183.8	29,000	125
130	34.2	166.8	30,800	40.4	174.4	29,100	45.7	179.2	27,600	130
135	29.7	158.8	29,300	36.6	168.2	27,700	42.3	174.0	26,200	135
140	24.5	149.1	27,900	32.4	160.9	26,400	38.6	168.2	25,000	140
145	17.9	136.1	26,600	27.6	152.2	25,200	34.6	161.4	23,800	145
150	6.6	113.1	25,300	21.9	141.4	24,000	30.2	153.6	22,700	150
155				14.2	126.0	22,900	25.0	144.0	21,700	155
160							18.6	131.5	20,700	160
165							8.3	110.5	19,800	165

14000 S-2

ANSI B30.5

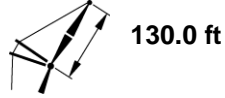
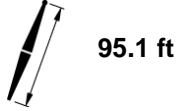
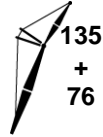


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	74.9	228.4	51,400 *b							45
50	72.6	227.0	50,400 *b							50
55	70.3	225.3	49,300 *							55
60	68.0	223.4	48,400 *							60
65	65.6	221.2	47,500 *	68.7	223.3	49,000 *				65
70	63.1	218.8	46,300 *	66.3	221.2	48,100 *				70
75	60.6	216.2	44,500 *	63.9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



ANSI B30.5

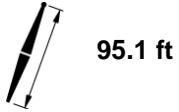
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	62.9	215.0	45,900 *							90
95	60.4	212.3	44,300 *							95
100	57.8	209.4	42,700 *							100
105	55.2	206.1	40,200							105
110	52.5	202.4	37,900	56.7	205.3	35,900				110
115	49.6	198.4	35,800	54.0	201.8	33,900				115
120	46.7	193.9	33,900	51.3	198.0	32,100				120
125	43.6	188.9	32,200	48.4	193.8	30,400	52.7	196.7	28,800	125
130	40.3	183.3	30,500	45.4	189.1	28,900	49.9	192.7	27,300	130
135	36.7	177.0	29,100	42.2	183.9	27,500	46.9	188.2	26,000	135
140	32.9	169.8	27,700	38.8	178.0	26,200	43.8	183.3	24,700	140
145	28.5	161.4	26,400	35.1	171.4	25,000	40.6	177.8	23,600	145
150	23.5	151.2	25,200	31.1	163.7	23,800	37.1	171.6	22,500	150
155	17.2	137.7	24,100	26.5	154.6	22,800	33.2	164.5	21,500	155
160	6.3	113.7	23,000	21.0	143.3	21,800	29.0	156.2	20,500	160
165				13.6	127.2	20,800	24.0	146.2	19,600	165
170							17.8	133.1	18,800	170
175							7.9	111.2	18,000	175

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	41,400 *	85
90	55.8	218.6	35,900 *	59.0	222.1	38,200 *	61.3	224.1	39,800 *	90
95	53.2	215.1	34,400 *	56.5	218.9	36,600 *	58.9	221.2	38,200 *	95
100	50.6	211.1	33,000 *	54.1	215.5	35,100 *	56.5	218.0	36,600 *	100
105	47.9	206.8	31,600 *	51.5	211.7	33,700 *	54.0	214.6	35,100 *	105
110	45.1	202.1	30,300 *	48.8	207.5	32,200 *	51.4	210.8	33,700 *	110
115	42.2	196.9	29,100 *	46.0	202.9	30,900 *	48.8	206.6	32,300 *	115
120	39.0	191.0	27,900 *	43.1	197.9	29,700 *	46.0	202.0	31,000 *	120
125	35.6	184.5	26,800 *	40.0	192.2	28,500 *	43.1	196.9	29,700 *	125
130	32.0	177.0	25,800 *	36.8	185.9	27,400 *	40.0	191.3	28,500 *	130
135	27.9	168.3	24,900 *	33.2	178.8	26,300 *	36.7	184.9	27,400 *	135
140	23.1	157.8	24,000 *	29.2	170.5	25,300 *	33.1	177.8	26,300 *	140
145	17.1	144.2	23,300 *	24.7	160.7	24,400 *	29.2	169.5	25,400 *	145
150	7.6	121.3	20,800 *	19.2	148.3	23,600 *	24.6	159.6	24,500 *	150
155				11.5	130.1	23,100 *	19.1	147.2	23,700 *	155
160							11.3	128.8	23,200 *	160
165										165
170										170
175										175
180										180
185										185



ANSI B30.5

14000 S-2



95.1 ft



140.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	62.7	223.7	40,500 *							95
100	60.4	221.0	38,900 *							100
105	58.0	218.0	37,400 *							105
110	55.5	214.7	36,000 *							110
115	53.0	211.1	34,500 *	57.0	214.0	33,600				115
120	50.4	207.2	33,200 *	54.5	210.6	31,700				120
125	47.7	202.9	31,800	51.9	206.8	30,100				125
130	44.9	198.1	30,200	49.3	202.7	28,600				130
135	41.9	192.8	28,800	46.5	198.2	27,200	50.7	201.5	25,600	135
140	38.7	186.9	27,400	43.6	193.2	25,900	48.0	197.2	24,400	140
145	35.3	180.3	26,100	40.6	187.7	24,600	45.1	192.5	23,200	145
150	31.6	172.7	24,900	37.3	181.5	23,500	42.2	187.3	22,100	150
155	27.5	163.9	23,800	33.8	174.5	22,500	39.0	181.4	21,100	155
160	22.6	153.2	22,800	29.9	166.4	21,500	35.7	174.9	20,200	160
165	16.5	139.2	21,800	25.5	156.9	20,600	32.0	167.4	19,300	165
170	6.1	114.2	20,800	20.2	145.1	19,700	27.9	158.7	18,500	170
175				13.1	128.4	18,800	23.1	148.2	17,700	175
180							17.2	134.6	17,000	180
185							7.7	111.9	16,200	185

14000 S-2

ANSI B30.5



95.1 ft



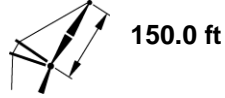
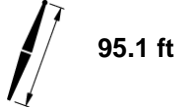
150.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	35,000 *	95
100	53.7	223.8	30,100 *	56.8	227.6	32,100 *	59.0	229.9	33,500 *	100
105	51.3	219.9	28,800 *	54.5	224.2	30,700 *	56.7	226.7	32,100 *	105
110	48.8	215.8	27,500 *	52.1	220.5	29,400 *	54.4	223.3	30,700 *	110
115	46.2	211.2	26,300 *	49.6	216.4	28,100 *	52.0	219.6	29,400 *	115
120	43.5	206.2	25,200 *	47.1	212.0	26,800 *	49.6	215.5	28,100 *	120
125	40.7	200.6	24,100 *	44.4	207.1	25,700 *	47.0	211.0	26,900 *	125
130	37.6	194.5	23,000 *	41.6	201.7	24,500 *	44.3	206.1	25,700 *	130
135	34.4	187.6	22,100 *	38.6	195.8	23,500 *	41.5	200.8	24,600 *	135
140	30.9	179.8	21,100 *	35.5	189.2	22,500 *	38.6	194.8	23,600 *	140
145	26.9	170.7	20,300 *	32.0	181.7	21,600 *	35.4	188.2	22,500 *	145
150	22.3	159.8	19,600 *	28.2	173.1	20,600 *	32.0	180.7	21,600 *	150
155	16.6	145.6	18,800 *	23.9	162.8	19,900 *	28.1	172.0	20,700 *	155
160	7.3	122.0	18,400 *	18.6	150.0	19,200 *	23.8	161.8	19,900 *	160
165				11.1	131.1	18,600 *	18.5	148.8	19,200 *	165
170							11.0	129.8	18,600 *	170
175										175
180										180
185										185
190										190
195										195



ANSI B30.5

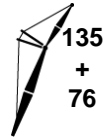
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	62.5	232.4	35,700 *							100
105	60.4	229.7	34,300 *							105
110	58.1	226.7	32,900 *							110
115	55.9	223.4	31,500 *							115
120	53.5	219.9	30,200 *	57.2	222.6	31,600				120
125	51.1	216.0	28,900 *	54.9	219.3	30,000				125
130	48.6	211.8	27,700 *	52.5	215.6	28,500				130
135	46.0	207.2	26,500 *	50.0	211.6	27,100				135
140	43.3	202.1	25,300 *	47.5	207.2	25,800	51.3	210.4	24,200	140
145	40.4	196.6	24,200 *	44.8	202.4	24,600	48.8	206.2	23,100	145
150	37.4	190.4	23,200 *	42.1	197.1	23,400	46.2	201.6	22,000	150
155	34.1	183.4	22,300 *	39.1	191.3	22,400	43.5	196.6	21,000	155
160	30.5	175.5	21,300 *	36.0	184.8	21,400	40.7	191.0	20,100	160
165	26.5	166.3	20,500 *	32.6	177.5	20,500	37.7	184.9	19,200	165
170	21.9	155.2	19,700 *	28.9	169.1	19,600	34.4	178.0	18,400	170
175	16.0	140.6	19,000 *	24.6	159.1	18,800	30.9	170.2	17,600	175
180	5.9	114.7	18,600 *	19.6	146.8	18,000	26.9	161.2	16,900	180
185				12.7	129.5	17,300	22.3	150.2	16,200	185
190							16.6	136.1	15,500	190
195							7.4	112.6	14,900	195

14000 S-2

ANSI B30.5



95.1 ft



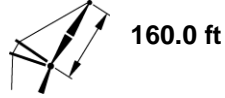
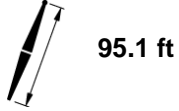
160.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	25,100 *	120
125	44.7	215.4	21,200 *	47.9	220.9	22,700 *	50.3	224.3	23,900 *	125
130	42.1	210.1	20,100 *	45.5	216.2	21,600 *	47.9	220.0	22,700 *	130
135	39.3	204.3	19,200 *	42.9	211.1	20,600 *	45.4	215.3	21,600 *	135
140	36.4	197.8	18,200 *	40.2	205.5	19,600 *	42.9	210.1	20,600 *	140
145	33.3	190.6	17,400 *	37.4	199.2	18,600 *	40.2	204.5	19,600 *	145
150	29.8	182.5	16,600 *	34.3	192.3	17,700 *	37.3	198.3	18,700 *	150
155	26.0	173.1	15,800 *	31.0	184.5	16,900 *	34.2	191.3	17,800 *	155
160	21.6	161.7	15,100 *	27.3	175.5	16,100 *	30.9	183.5	16,900 *	160
165	16.0	147.1	14,500 *	23.1	164.9	15,300 *	27.2	174.5	16,100 *	165
170	7.1	122.6	13,700 *	18.0	151.6	14,700 *	23.0	163.9	15,400 *	170
175				10.8	132.1	13,900 *	17.9	150.4	14,800 *	175
180							10.6	130.7	14,000 *	180
185										185
190										190
195										195
200										200
205										205



ANSI B30.5

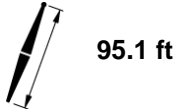
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	31,000 *							105
110	60.3	238.3	29,700 *							110
115	58.2	235.4	28,400 *							115
120	56.1	232.1	27,100 *							120
125	53.9	228.6	25,800 *	57.3	231.3	27,500 *				125
130	51.7	224.8	24,600 *	55.2	228.0	26,300 *				130
135	49.4	220.7	23,500 *	53.0	224.4	25,200 *				135
140	47.0	216.2	22,300 *	50.7	220.4	24,000 *				140
145	44.5	211.4	21,300 *	48.3	216.2	22,900 *	51.9	219.1	22,700	145
150	41.8	206.0	20,200 *	45.9	211.5	21,900 *	49.6	215.1	21,700	150
155	39.1	200.2	19,300 *	43.4	206.4	20,800 *	47.2	210.6	20,700	155
160	36.1	193.7	18,400 *	40.7	200.9	19,900 *	44.7	205.8	19,800	160
165	33.0	186.4	17,500 *	37.8	194.8	18,900 *	42.1	200.5	18,900	165
170	29.5	178.2	16,700 *	34.8	188.0	18,000 *	39.3	194.7	18,100	170
175	25.7	168.6	15,900 *	31.6	180.3	17,200 *	36.4	188.2	17,300	175
180	21.2	157.1	15,200 *	27.9	171.6	16,400 *	33.3	181.1	16,600	180
185	15.5	142.0	14,500 *	23.8	161.3	15,600 *	29.9	172.9	15,900	185
190	5.7	115.2	13,700 *	18.9	148.5	14,900 *	26.0	163.5	15,300	190
195				12.3	130.6	14,200 *	21.6	152.2	14,600	195
200							16.1	137.5	14,000	200
205							7.2	113.2	13,400	205

14000 S-2

ANSI B30.5

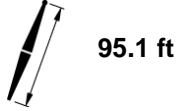


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
60	73.3	265.7	36,200 *						60	
65	71.6	264.1	34,600 *						65	
70	69.8	262.4	33,100 *						70	
75	68.0	260.5	31,600 *	70.3	262.2	33,600 *			75	
80	66.1	258.4	30,100 *	68.5	260.4	32,100 *			80	
85	64.3	256.0	28,700 *	66.7	258.3	30,600 *			85	
90	62.4	253.5	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

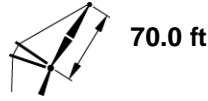
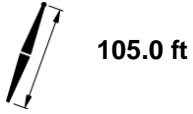
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	27,100 *							110
115	60.3	247.0	25,800 *							115
120	58.3	244.0	24,600 *							120
125	56.3	240.8	23,400 *							125
130	54.3	237.4	22,200 *	57.5	240.0	23,900 *				130
135	52.2	233.6	21,200 *	55.5	236.7	22,800 *				135
140	50.0	229.6	20,100 *	53.4	233.1	21,700 *				140
145	47.8	225.2	19,000 *	51.3	229.2	20,600 *				145
150	45.5	220.5	18,100 *	49.1	225.1	19,600 *	52.4	227.9	21,000 *	150
155	43.1	215.4	17,200 *	46.8	220.6	18,600 *	50.2	223.9	20,000 *	155
160	40.5	209.8	16,200 *	44.5	215.7	17,600 *	48.0	219.6	19,000 *	160
165	37.9	203.7	15,400 *	42.0	210.4	16,800 *	45.7	214.9	18,100 *	165
170	35.0	196.9	14,500 *	39.4	204.6	15,900 *	43.3	209.8	17,100 *	170
175	32.0	189.3	13,800 *	36.7	198.2	15,000 *	40.8	204.3	16,300 *	175
180	28.6	180.8	12,800 *	33.8	191.1	14,300 *	38.1	198.2	15,500 *	180
185	24.9	170.9	11,900 *	30.6	183.1	13,400 *	35.3	191.5	14,700 *	185
190	20.5	158.9	11,100 *	27.1	174.0	12,500 *	32.3	184.0	13,900 *	190
195	15.0	143.3	10,300 *	23.1	163.4	11,600 *	29.0	175.6	12,900 *	195
200	5.5	115.7	9,700 *	18.4	150.2	10,800 *	25.3	165.8	12,100 *	200
205				11.9	131.7	10,100 *	21.0	154.1	11,200 *	205
210							15.6	138.9	10,400 *	210
215							6.9	113.8	9,800 *	215

14000 S-2

ANSI B30.5

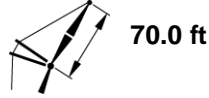
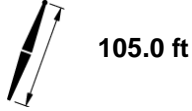


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
30	74.9	180.3	107,300 *d							30
32	73.2	179.7	107,300 *d							32
34	71.5	179.1	107,300 *c							34
36	69.7	178.4	107,300 *c							36
38	68.0	177.6	107,300 *c							38
40	66.2	176.7	105,600 *c							40
45	61.6	174.3	100,700 *b	68.2	176.9	108,700 *c				45
50	56.9	171.3	96,300 *b	63.7	174.7	103,600 *b				50
55	51.8	167.7	92,500 *	59.1	172.0	98,600 *b	64.1	174.0	96,500 b	55
60	46.4	163.4	86,900 *	54.2	168.7	88,900 b	59.5	171.3	86,400 b	60
65	40.5	158.1	80,400 *	48.9	164.7	80,500	54.6	168.0	78,200 b	65
70	33.7	151.5	72,700 *	43.3	159.9	73,400	49.4	164.1	71,300	70
75	25.3	142.7	66,300 *	36.9	153.9	67,300	43.8	159.4	65,400	75
80	12.8	128.2	52,200 *	29.4	146.3	62,100	37.5	153.6	60,400	80
85				19.5	135.3	57,600	30.1	146.1	56,000	85
90							20.5	135.5	52,100	90
95										95
100										100
105										105
110										110
115										115
120										120



ANSI B30.5

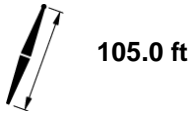
14000 S-2



	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									70	
75	58.4	168.4	67,900 b						75	
80	48.2	161.0	57,500	57.1	164.7	54,600 b			80	
85	42.4	156.1	53,300	52.1	161.1	50,700			85	
90	36.0	149.9	49,700	46.7	156.8	47,200			90	
95	28.3	141.9	46,400	40.8	151.6	44,100	50.4	156.1	41,800	95
100	17.8	130.2	43,500	34.1	145.1	41,300	44.9	151.6	39,200	100
105				25.9	136.4	38,800	38.7	146.0	36,900	105
110				13.8	122.6	36,500	31.6	138.9	34,700	110
115							22.7	129.2	32,800	115
120							6.2	109.7	30,900	120

14000 S-2

ANSI B30.5

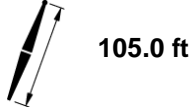


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
34	73.8	189.6	98,100 *c							34
36	72.3	188.9	98,100 *c							36
38	70.8	188.3	98,000 *c							38
40	69.3	187.6	97,700 *c							40
45	65.4	185.5	93,100 *b							45
50	61.4	183.0	88,900 *b	67.2	185.7	95,800 *b				50
55	57.3	180.0	85,100 *	63.3	183.4	91,500 *b	67.5	184.9	96,100 *b	55
60	52.9	176.5	81,700 *	59.2	180.6	87,600 *b	63.6	182.6	86,100 b	60
65	48.3	172.4	78,600 *	54.9	177.4	80,200	59.5	179.9	77,900 b	65
70	43.3	167.5	72,600 *	50.4	173.6	73,100	55.3	176.7	71,000	70
75	37.7	161.7	66,200 *	45.6	169.1	67,100	50.8	173.0	65,200	75
80	31.4	154.4	60,800 *	40.3	163.7	62,000	46.0	168.6	60,200	80
85	23.7	144.9	56,100 *	34.4	157.2	57,500	40.8	163.3	55,800	85
90	12.0	129.3	45,900 *	27.5	148.8	53,500	35.0	156.8	52,000	90
95				18.3	137.0	50,000	28.1	148.7	48,600	95
100							19.2	137.3	45,500	100
105										105
110										110
115										115
120										120
125										125
130										130



ANSI B30.5

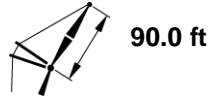
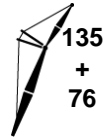
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	lb	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	67,500 b						70	
75	58.6	177.1	61,900						75	
80	54.3	173.8	57,200						80	
85	49.8	169.9	53,000	57.5	173.3	50,300			85	
90	44.9	165.3	49,400	53.1	169.9	46,800			90	
95	39.6	159.8	46,100	48.5	165.8	43,800			95	
100	33.6	153.1	43,300	43.6	161.0	41,000	51.7	165.0	38,800	100
105	26.4	144.4	40,700	38.1	155.2	38,600	47.0	160.7	36,500	105
110	16.6	131.7	38,300	31.8	148.0	36,300	41.8	155.6	34,400	110
115				24.2	138.6	34,300	36.2	149.4	32,500	115
120				12.9	123.7	32,400	29.6	141.6	30,700	120
125							21.2	131.1	29,100	125
130							5.8	110.2	27,500	130

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36			88,200 *c							36
38			87,100 *c							38
40			85,500 *c							40
45			81,600 *b							45
50			78,000 *b							50
55			74,700 *	69.9	196.4	83,700 *b				55
60			71,600 *	66.4	194.4	80,100 *b				60
65			68,700 *	62.9	192.1	76,800 *b	66.7	193.7	80,500 *b	65
70			66,200 *	59.3	189.3	73,600 *	63.2	191.3	77,200 *b	70
75			63,900 *	55.5	186.1	70,800 *	59.6	188.6	70,800	75
80			61,200 *	51.5	182.4	67,000	55.8	185.4	65,000	80
85			56,400 *	47.4	178.1	61,800	51.9	181.8	60,000	85
90			52,300 *	42.9	173.1	57,300	47.7	177.6	55,600	90
95			48,600 *	37.9	167.2	53,400	43.2	172.6	51,800	95
100			40,400 *	32.4	160.2	49,900	38.4	166.9	48,400	100
105				25.9	151.2	46,800	32.9	159.9	45,400	105
110				17.2	138.5	44,000	26.5	151.1	42,700	110
115							18.1	138.9	40,200	115
120										120
125										125
130										130
135										135
140										140

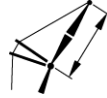


ANSI B30.5

14000 S-2



105.0 ft

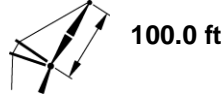
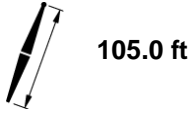
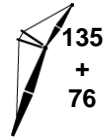


90.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	62.4	188.6	61,700 b							75
80	58.8	185.8	56,900							80
85	55.0	182.5	52,800							85
90	51.0	178.7	49,200	57.8	182.0	46,600				90
95	46.8	174.4	46,000	53.9	178.6	43,500				95
100	42.2	169.3	43,100	49.9	174.7	40,800				100
105	37.2	163.3	40,500	45.6	170.2	38,400	52.7	173.7	36,300	105
110	31.6	156.0	38,200	40.9	164.9	36,200	48.5	169.6	34,200	110
115	24.9	146.7	36,100	35.8	158.5	34,200	44.1	164.9	32,300	115
120	15.7	133.1	34,100	30.0	150.8	32,300	39.4	159.2	30,500	120
125				22.8	140.7	30,600	34.0	152.5	28,900	125
130				12.2	124.8	29,000	27.8	144.2	27,500	130
135							20.0	132.9	26,100	135
140							5.4	110.7	24,800	140

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	74,700 *b				55
60	61.1	200.3	66,500 *	65.8	203.1	71,400 *b				60
65	57.8	197.3	63,600 *	62.6	200.7	68,400 *	66.1	202.4	71,700 *b	65
70	54.4	194.0	61,000 *	59.4	197.9	65,500 *	62.9	200.0	68,700 *	70
75	50.8	190.2	58,600 *	56.0	194.8	62,800 *	59.6	197.3	64,700	75
80	47.0	185.8	56,300 *	52.4	191.2	60,200 *	56.3	194.1	59,700	80
85	42.9	180.8	54,300 *	48.7	187.1	57,100	52.7	190.6	55,300	85
90	38.5	175.0	52,000 *	44.8	182.4	53,200	49.0	186.5	51,500	90
95	33.6	168.1	48,300 *	40.6	176.9	49,700	45.1	181.9	48,200	95
100	28.0	159.7	45,100 *	35.9	170.6	46,600	40.9	176.5	45,200	100
105	21.2	148.8	42,200 *	30.7	163.0	43,800	36.3	170.2	42,500	105
110	10.7	131.3	36,000 *	24.5	153.4	41,300	31.2	162.8	40,000	110
115				16.3	140.0	39,000	25.1	153.4	37,800	115
120							17.1	140.5	35,800	120
125										125
130										130
135										135
140										140
145										145
150										150



ANSI B30.5

14000 S-2



105.0 ft

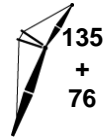


100.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	62.2	197.3	56,600							80
85	58.9	194.4	52,400							85
90	55.5	191.2	48,800							90
95	51.9	187.5	45,600							95
100	48.2	183.4	42,800	54.6	187.4	40,400				100
105	44.2	178.6	40,200	51.0	183.6	38,000				105
110	40.0	173.0	37,900	47.2	179.2	35,800				110
115	35.3	166.5	35,800	43.1	174.2	33,800	49.8	178.5	31,900	115
120	29.9	158.7	33,900	38.8	168.5	32,000	45.9	174.0	30,200	120
125	23.6	148.8	32,100	33.9	161.7	30,400	41.8	168.8	28,600	125
130	14.9	134.4	30,500	28.4	153.4	28,800	37.3	162.7	27,100	130
135				21.6	142.7	27,400	32.2	155.5	25,800	135
140				11.5	125.9	26,000	26.4	146.6	24,600	140
145							18.9	134.6	23,400	145
150							5.2	111.2	22,200	150

14000 S-2

ANSI B30.5



105.0 ft



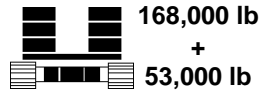
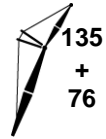
110.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	67,300 *b				60
65	61.0	208.9	61,000 *	65.3	211.9	64,900 *				65
70	58.0	206.0	58,700 *	62.4	209.4	62,500 *	65.5	211.1	65,000 *	70
75	54.9	202.7	56,400 *	59.4	206.6	60,300 *	62.6	208.7	62,800 *	75
80	51.6	199.0	54,300 *	56.3	203.5	57,800 *	59.7	205.9	59,600 *	80
85	48.2	194.8	52,200 *	53.1	199.9	55,600 *	56.6	202.8	55,300 *	85
90	44.6	190.0	50,300 *	49.8	195.9	53,100	53.4	199.3	51,500	90
95	40.8	184.6	48,600 *	46.3	191.5	49,700	50.1	195.4	48,100	95
100	36.6	178.4	45,500 *	42.6	186.4	46,600	46.6	190.9	45,100	100
105	32.0	171.0	42,500 *	38.6	180.5	43,800	42.9	185.9	42,500	105
110	26.7	162.1	39,700 *	34.2	173.7	41,300	38.9	180.1	40,000	110
115	20.2	150.6	37,100 *	29.2	165.7	39,100	34.6	173.4	37,800	115
120	10.2	132.2	31,300 *	23.4	155.6	37,000	29.7	165.5	35,800	120
125				15.5	141.4	35,100	23.9	155.6	34,000	125
130							16.3	141.9	32,300	130
135										135
140										140
145										145
150										150
155										155
160										160

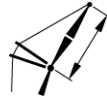


ANSI B30.5

14000 S-2



105.0 ft

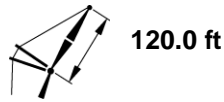
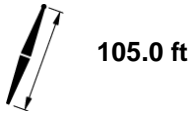


110.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	62.0	205.9	52,400							85
90	59.0	203.1	48,800							90
95	55.9	199.9	45,600							95
100	52.7	196.3	42,700							100
105	49.4	192.3	40,200	55.1	196.1	38,000				105
110	45.8	187.7	37,900	51.8	192.4	35,800				110
115	42.1	182.5	35,800	48.4	188.2	33,800				115
120	38.0	176.6	33,900	44.9	183.4	32,000	50.8	187.4	30,100	120
125	33.6	169.6	32,200	41.0	178.1	30,300	47.3	183.0	28,600	125
130	28.5	161.3	30,600	36.9	171.9	28,800	43.6	178.1	27,100	130
135	22.5	150.8	29,100	32.3	164.6	27,400	39.7	172.5	25,800	135
140	14.2	135.7	27,700	27.0	155.9	26,100	35.5	166.0	24,600	140
145				20.6	144.5	24,900	30.7	158.3	23,400	145
150				11.0	126.8	23,700	25.1	148.9	22,300	150
155							18.0	136.2	21,300	155
160							4.9	111.6	20,300	160

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	59,800 *				65
70	61.0	217.6	53,900 *	64.9	220.6	57,500 *	67.7	222.0	59,800 *	70
75	58.2	214.7	51,800 *	62.2	218.1	55,300 *	65.1	219.8	57,600 *	75
80	55.3	211.4	49,800 *	59.5	215.3	53,200 *	62.4	217.4	55,500 *	80
85	52.4	207.7	48,000 *	56.6	212.1	51,200 *	59.7	214.6	53,400 *	85
90	49.3	203.7	46,100 *	53.7	208.7	49,300 *	56.9	211.5	51,200 *	90
95	46.1	199.1	44,300 *	50.7	204.8	47,300 *	54.0	208.1	47,800 *	95
100	42.6	194.0	42,600 *	47.6	200.5	45,500 *	51.0	204.2	44,800 *	100
105	39.0	188.2	41,000 *	44.2	195.6	43,600 *	47.8	199.9	42,200 *	105
110	35.0	181.6	39,600 *	40.7	190.2	41,100 *	44.5	195.1	39,800 *	110
115	30.6	173.8	37,100 *	36.9	183.9	38,800 *	41.0	189.7	37,600 *	115
120	25.6	164.5	34,900 *	32.7	176.7	36,800 *	37.2	183.6	35,600 *	120
125	19.3	152.4	32,700 *	28.0	168.2	34,900 *	33.1	176.5	33,800 *	125
130	9.8	133.1	27,800 *	22.4	157.6	33,100 *	28.4	168.1	32,100 *	130
135				14.9	142.7	31,500 *	22.9	157.6	30,500 *	135
140							15.6	143.3	29,100 *	140
145										145
150										150
155										155
160										160
165										165
170										170



ANSI B30.5

14000 S-2



105.0 ft

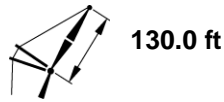


120.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	61.8	214.6	48,400							90
95	59.1	211.8	45,200							95
100	56.3	208.6	42,400							100
105	53.3	205.1	39,800							105
110	50.3	201.1	37,600	55.5	204.8	35,400				110
115	47.1	196.7	35,500	52.5	201.1	33,400				115
120	43.8	191.8	33,600	49.5	197.1	31,600				120
125	40.2	186.3	31,900	46.3	192.6	30,000	51.6	196.2	28,200	125
130	36.3	179.9	30,300	42.8	187.5	28,500	48.4	192.0	26,700	130
135	32.1	172.6	28,800	39.2	181.7	27,100	45.2	187.3	25,400	135
140	27.3	163.8	27,400	35.3	175.1	25,800	41.7	182.0	24,200	140
145	21.5	152.8	26,200	30.9	167.5	24,600	38.0	176.0	23,100	145
150	13.6	136.9	24,900	25.9	158.2	23,500	33.9	169.1	22,000	150
155				19.7	146.3	22,400	29.4	161.0	21,000	155
160				10.5	127.8	21,400	24.0	151.1	20,100	160
165							17.3	137.8	19,200	165
170							4.7	112.1	18,300	170

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	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	47,800 *	75
80	58.3	223.4	42,800 *	62.0	226.7	45,500 *	64.7	228.5	47,100 *	80
85	55.7	220.1	41,100 *	59.5	223.9	43,800 *	62.2	226.0	45,700 *	85
90	53.0	216.5	39,500 *	56.9	220.8	42,100 *	59.7	223.2	43,900 *	90
95	50.2	212.6	37,900 *	54.2	217.4	40,500 *	57.1	220.2	42,300 *	95
100	47.2	208.1	36,500 *	51.5	213.6	38,900 *	54.5	216.8	40,700 *	100
105	44.2	203.3	35,100 *	48.6	209.4	37,500 *	51.7	213.0	39,100 *	105
110	40.9	197.8	33,900 *	45.6	204.8	36,000 *	48.8	208.9	37,700 *	110
115	37.4	191.7	32,700 *	42.4	199.6	34,700 *	45.8	204.3	36,300 *	115
120	33.6	184.7	31,600 *	39.0	193.8	33,400 *	42.7	199.1	34,900 *	120
125	29.4	176.5	30,500 *	35.4	187.2	32,300 *	39.3	193.4	33,600 *	125
130	24.5	166.7	29,600 *	31.4	179.6	31,200 *	35.7	186.9	31,900 *	130
135	18.5	154.0	28,900 *	26.9	170.6	30,200 *	31.7	179.4	30,400 *	135
140	9.4	133.9	24,900 *	21.5	159.5	29,300 *	27.3	170.5	28,900 *	140
145				14.3	144.0	28,400 *	22.0	159.6	27,600 *	145
150							15.0	144.7	26,300 *	150
155										155
160										160
165										165
170										170
175										175
180										180

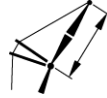


ANSI B30.5

14000 S-2



105.0 ft

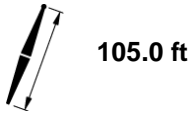


130.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	61.7	223.3	45,000 *							95
100	59.2	220.4	42,100							100
105	56.6	217.3	39,600							105
110	53.9	213.8	37,300							110
115	51.1	210.0	35,300	55.8	213.4	33,200				115
120	48.2	205.7	33,400	53.1	209.9	31,400				120
125	45.2	201.0	31,600	50.3	205.9	29,800				125
130	42.0	195.7	30,100	47.4	201.6	28,200	52.2	205.0	26,500	130
135	38.6	189.8	28,600	44.3	196.7	26,900	49.4	200.9	25,200	135
140	34.9	183.1	27,200	41.1	191.3	25,600	46.4	196.4	24,000	140
145	30.8	175.4	26,000	37.6	185.2	24,400	43.3	191.4	22,800	145
150	26.2	166.2	24,800	33.8	178.3	23,300	40.0	185.7	21,800	150
155	20.6	154.6	23,700	29.6	170.2	22,200	36.4	179.4	20,800	155
160	13.0	138.1	22,600	24.8	160.5	21,300	32.5	172.1	19,900	160
165				18.9	148.0	20,300	28.2	163.6	19,000	165
170				10.1	128.7	19,400	23.1	153.1	18,200	170
175							16.6	139.3	17,400	175
180							4.5	112.4	16,600	180

14000 S-2

ANSI B30.5

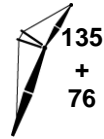


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	74.1	247.4	46,700 *b							50
55	72.0	245.9	45,800 *							55
60	69.8	244.1	45,000 *							60
65	67.6	242.2	44,200 *	70.8	244.1	45,400 *				65
70	65.4	240.0	42,500 *	68.6	242.3	44,700 *				70
75	63.1	237.6	40,800 *	66.4	240.2	43,500 *				75
80	60.8	234.9	39,100 *	64.2	237.9	41,700 *	66.6	239.5	43,500 *	80
85	58.4	232.0	37,500 *	61.9	235.4	40,100 *	64.4	237.2	41,800 *	85
90	56.0	228.8	35,900 *	59.5	232.6	38,500 *	62.1	234.7	40,200 *	90
95	53.5	225.3	34,500 *	57.1	229.5	36,900 *	59.7	231.9	38,600 *	95
100	50.9	221.4	33,000 *	54.7	226.1	35,400 *	57.3	228.9	37,100 *	100
105	48.2	217.1	31,700 *	52.1	222.4	33,900 *	54.9	225.5	35,600 *	105
110	45.4	212.4	30,400 *	49.5	218.3	32,600 *	52.3	221.8	34,100 *	110
115	42.5	207.2	29,200 *	46.7	213.8	31,200 *	49.7	217.7	32,700 *	115
120	39.3	201.5	28,100 *	43.8	208.9	30,000 *	47.0	213.3	31,400 *	120
125	36.0	195.0	27,000 *	40.8	203.4	28,700 *	44.1	208.4	30,200 *	125
130	32.4	187.6	26,000 *	37.6	197.3	27,600 *	41.1	202.9	28,900 *	130
135	28.3	179.1	25,000 *	34.1	190.3	26,600 *	37.8	196.9	27,800 *	135
140	23.6	168.8	24,100 *	30.2	182.4	25,600 *	34.4	190.0	26,700 *	140
145	17.8	155.6	23,400 *	25.9	173.0	24,700 *	30.6	182.2	25,700 *	145
150	9.0	134.7	22,200 *	20.7	161.4	23,900 *	26.3	172.9	24,800 *	150
155				13.8	145.2	23,200 *	21.2	161.5	24,000 *	155
160							14.5	146.0	23,300 *	160
165										165
170										170
175										175
180										180
185										185
190										190

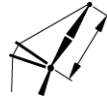


ANSI B30.5

14000 S-2



105.0 ft

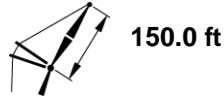
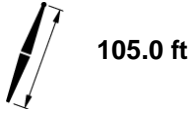


140.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	39,500 *							100
105	59.2	229.1	38,100 *							105
110	56.8	226.0	36,600 *							110
115	54.3	222.5	34,900							115
120	51.8	218.8	33,000	56.2	222.1	31,000				120
125	49.1	214.6	31,300	53.6	218.6	29,400				125
130	46.3	210.1	29,700	51.1	214.8	27,900				130
135	43.4	205.1	28,300	48.4	210.5	26,500	52.8	213.7	24,800	135
140	40.4	199.5	26,900	45.6	205.9	25,200	50.2	209.8	23,600	140
145	37.1	193.3	25,700	42.6	200.7	24,100	47.5	205.4	22,500	145
150	33.6	186.2	24,500	39.5	195.0	23,000	44.7	200.6	21,400	150
155	29.7	178.1	23,400	36.2	188.6	21,900	41.7	195.2	20,400	155
160	25.2	168.5	22,400	32.6	181.2	21,000	38.5	189.3	19,500	160
165	19.9	156.4	21,400	28.5	172.8	20,000	35.1	182.6	18,700	165
170	12.5	139.2	20,500	23.9	162.6	19,200	31.3	175.0	17,900	170
175				18.2	149.6	18,400	27.1	166.0	17,100	175
180				9.7	129.6	17,600	22.2	155.1	16,400	180
185							16.0	140.7	15,700	185
190							4.4	112.8	15,000	190

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ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70				70.1	253.0	41,700 *				70
75				68.1	251.1	40,100 *				75
80				66.0	249.0	38,500 *				80
85				63.9	246.6	36,900 *	66.2	248.2	38,500 *	85
90				61.8	244.1	35,300 *	64.1	245.9	36,900 *	90
95				59.6	241.2	33,800 *	61.9	243.4	35,500 *	95
100				57.3	238.2	32,400 *	59.8	240.6	34,000 *	100
105				55.0	234.8	31,000 *	57.5	237.5	32,600 *	105
110				52.7	231.2	29,700 *	55.2	234.2	31,200 *	110
115				50.2	227.2	28,400 *	52.9	230.6	29,800 *	115
120				47.7	222.8	27,200 *	50.4	226.6	28,600 *	120
125				45.0	218.1	26,000 *	47.9	222.3	27,300 *	125
130				42.3	212.8	24,800 *	45.3	217.6	26,200 *	130
135				39.4	207.0	23,800 *	42.5	212.4	25,000 *	135
140				36.2	200.6	22,800 *	39.6	206.6	23,900 *	140
145				32.9	193.3	21,800 *	36.5	200.2	22,900 *	145
150				29.2	185.0	20,900 *	33.2	193.1	22,000 *	150
155				25.0	175.2	20,100 *	29.5	184.8	21,000 *	155
160				20.0	163.2	19,300 *	25.4	175.2	20,200 *	160
165				13.3	146.4	18,700 *	20.4	163.4	19,500 *	165
170							14.0	147.2	18,800 *	170
175										175
180										180
185										185
190										190
195										195
200										200



ANSI B30.5

14000 S-2



105.0 ft

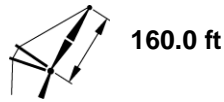
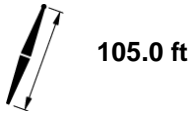


150.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	34,900 *							105
110	59.3	237.7	33,500 *							110
115	57.0	234.6	32,200 *							115
120	54.7	231.2	30,800 *							120
125	52.3	227.6	29,500 *	56.4	230.8	29,300				125
130	49.9	223.5	28,300 *	54.1	227.4	27,800				130
135	47.3	219.1	27,100 *	51.7	223.6	26,400				135
140	44.7	214.3	25,900 *	49.2	219.4	25,100				140
145	41.9	209.0	24,900 *	46.6	214.9	24,000	50.9	218.6	22,400	145
150	38.9	203.1	23,800 *	44.0	210.0	22,900	48.4	214.4	21,300	150
155	35.8	196.6	22,800 *	41.1	204.5	21,800	45.8	209.7	20,400	155
160	32.4	189.2	21,800 *	38.1	198.5	20,900	43.1	204.6	19,400	160
165	28.6	180.7	20,900 *	34.9	191.7	20,000	40.2	199.0	18,600	165
170	24.4	170.7	20,100 *	31.4	184.1	19,100	37.1	192.7	17,800	170
175	19.2	158.1	19,400 *	27.6	175.3	18,300	33.8	185.7	17,000	175
180	12.1	140.3	18,800	23.1	164.7	17,600	30.2	177.7	16,300	180
185				17.6	151.2	16,800	26.2	168.4	15,700	185
190				9.4	130.4	16,100	21.5	157.1	15,000	190
195							15.4	142.1	14,400	195
200							4.2	113.2	13,800	200

14000 S-2

ANSI B30.5

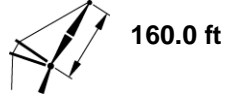
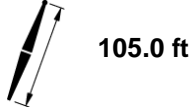


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
55	74.3	266.7	39,900 *							55
60	72.4	265.3	39,100 *							60
65	70.6	263.6	37,500 *							65
70	68.6	261.7	35,900 *							70
75	66.7	259.7	34,300 *	69.5	261.8	36,600 *				75
80	64.7	257.4	32,800 *	67.6	259.8	35,100 *				80
85	62.7	254.9	31,300 *	65.6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



ANSI B30.5

14000 S-2



ft	75°			70°			65°			ft
	ft	lb	ft	ft	lb	ft	ft	lb		
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	30,200 *							110
115	59.3	246.4	28,900 *							115
120	57.2	243.3	27,700 *							120
125	55.1	240.0	26,400 *							125
130	52.8	236.3	25,200 *	56.6	239.5	27,100 *				130
135	50.6	232.4	24,100 *	54.5	236.1	25,900 *				135
140	48.2	228.1	22,900 *	52.2	232.4	24,700 *				140
145	45.7	223.4	21,800 *	49.9	228.3	23,600				145
150	43.2	218.3	20,800 *	47.6	223.9	22,500	51.5	227.4	20,900	150
155	40.5	212.7	19,800 *	45.1	219.2	21,500	49.2	223.3	20,000	155
160	37.7	206.6	18,800 *	42.5	213.9	20,500 *	46.8	218.8	19,100	160
165	34.6	199.7	18,000 *	39.8	208.2	19,600 *	44.3	213.9	18,200	165
170	31.3	192.0	17,100 *	36.9	201.9	18,700 *	41.6	208.5	17,400	170
175	27.7	183.2	16,300 *	33.8	194.8	17,800 *	38.9	202.6	16,700	175
180	23.6	172.8	15,600 *	30.4	186.9	17,000 *	35.9	196.0	16,000	180
185	18.6	159.8	15,000 *	26.7	177.7	16,200 *	32.7	188.7	15,300	185
190	11.7	141.4	14,100 *	22.4	166.7	15,400 *	29.3	180.4	14,700	190
195				17.0	152.7	14,800 *	25.3	170.7	14,100	195
200				9.1	131.2	14,000 *	20.8	158.9	13,500	200
205							14.9	143.4	13,000	205
210							4.1	113.6	12,400	210

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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

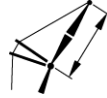


ANSI B30.5

14000 S-2



105.0 ft

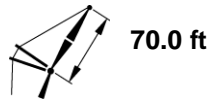


170.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	26,400 *							115
120	59.4	255.1	25,200 *							120
125	57.4	252.0	24,000 *							125
130	55.3	248.7	22,900 *							130
135	53.3	245.1	21,700 *	56.8	248.2	23,500 *				135
140	51.1	241.2	20,600 *	54.8	244.8	22,400 *				140
145	48.9	237.0	19,600 *	52.7	241.1	21,300 *				145
150	46.7	232.5	18,600 *	50.6	237.2	20,300 *				150
155	44.3	227.6	17,600 *	48.3	232.9	19,300 *	52.0	236.2	19,700	155
160	41.8	222.2	16,700 *	46.1	228.3	18,300 *	49.9	232.1	18,800	160
165	39.2	216.4	15,800 *	43.7	223.2	17,400 *	47.6	227.8	18,000	165
170	36.5	209.9	15,100 *	41.2	217.8	16,500 *	45.3	223.0	17,200	170
175	33.6	202.8	14,200 *	38.5	211.8	15,600 *	42.9	217.8	16,500	175
180	30.4	194.8	13,300 *	35.7	205.2	14,900 *	40.3	212.2	15,800	180
185	26.9	185.6	12,400 *	32.7	197.8	14,100 *	37.7	206.0	15,100	185
190	22.9	174.8	11,500 *	29.5	189.6	13,100 *	34.8	199.2	14,500	190
195	18.0	161.4	10,800 *	25.9	180.0	12,200 *	31.7	191.6	13,800 *	195
200	11.4	142.4	10,000 *	21.7	168.7	11,400 *	28.4	182.9	12,800 *	200
205				16.5	154.2	10,600 *	24.6	172.9	11,900 *	205
210				8.8	132.0	9,900 *	20.2	160.7	11,100 *	210
215							14.5	144.7	10,300 *	215
220							4.0	113.9	9,700 *	220

14000 S-2

ANSI B30.5

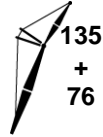


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
32	73.6	189.7	104,200 *d						32	
34	71.9	189.1	104,200 *c						34	
36	70.2	188.4	104,200 *c						36	
38	68.4	187.6	104,200 *c						38	
40	66.6	186.8	104,200 *c						40	
45	62.1	184.4	100,600 *b	69.3	187.1	106,000 *c			45	
50	57.4	181.5	96,200 *b	64.8	185.0	104,200 *c			50	
55	52.4	178.0	92,200 *b	60.2	182.4	97,400 *b	65.7	184.5	95,700 c	55
60	47.0	173.7	85,700 *	55.4	179.3	88,500 b	61.1	181.9	85,700 b	60
65	41.1	168.6	79,800 *	50.2	175.5	80,100	56.3	178.9	77,500 b	65
70	34.4	162.1	73,400 *	44.7	170.9	73,000	51.2	175.2	70,700	70
75	26.3	153.6	67,000 *	38.5	165.3	67,000	45.7	170.8	64,900	75
80	14.6	140.2	54,500 *	31.4	158.1	61,800	39.7	165.4	59,900	80
85				22.3	148.2	57,300	32.8	158.6	55,600	85
90				4.6	127.3	48,500 *	24.2	149.4	51,700	90
95							10.4	133.3	48,200	95
100										100
105										105
110										110
115										115
120										120



ANSI B30.5

14000 S-2



114.8 ft

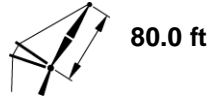
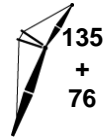


70.0 ft

	75°			70°			65°			
	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	60.8	179.4	66,900 b							70
75	56.0	176.4	61,400 b							75
80	50.9	172.7	56,700							80
85	45.4	168.2	52,500	55.5	172.8	49,600 b				85
90	39.4	162.7	48,900	50.4	169.1	46,100				90
95	32.4	155.8	45,700	44.9	164.5	43,100				95
100	23.7	146.4	42,800	38.7	158.9	40,400	49.5	164.4	38,000	100
105	9.2	129.4	40,200	31.6	151.8	38,000	43.9	159.6	35,700	105
110				22.6	142.0	35,800	37.6	153.9	33,700	110
115				6.0	122.5	33,700	30.3	146.4	31,800	115
120							20.8	136.0	30,000	120

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	88,800 *b	68.1	195.9	96,100 *c				50
55	57.7	190.2	85,100 *b	64.2	193.7	91,900 *b				55
60	53.4	186.7	81,700 *	60.2	191.1	88,000 *b	65.0	193.2	85,400 b	60
65	48.8	182.7	78,500 *	56.0	188.0	79,800	60.9	190.6	77,200 b	65
70	43.8	177.9	73,400 *	51.5	184.3	72,800	56.8	187.6	70,400	70
75	38.3	172.2	66,800 *	46.8	180.0	66,800	52.4	184.0	64,600	75
80	32.1	165.1	61,300 *	41.7	174.9	61,600	47.7	179.8	59,600	80
85	24.6	155.8	56,500 *	35.9	168.6	57,200	42.6	174.9	55,300	85
90	13.6	141.4	47,900 *	29.3	160.8	53,200	37.1	168.9	51,500	90
95				20.8	150.1	49,700	30.6	161.4	48,100	95
100				4.3	127.7	43,000 *	22.6	151.4	45,100	100
105							9.7	134.2	42,300	105
110										110
115										115
120										120
125										125
130										130



ANSI B30.5

14000 S-2



114.8 ft



80.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	61,000 b							75
80	56.5	185.1	56,300							80
85	52.1	181.5	52,200							85
90	47.4	177.2	48,600	56.1	181.5	45,700				90
95	42.4	172.2	45,400	51.7	177.9	42,800				95
100	36.7	166.2	42,600	46.9	173.6	40,100				100
105	30.2	158.6	40,000	41.8	168.5	37,700	50.9	173.2	35,300	105
110	22.1	148.4	37,700	36.1	162.3	35,500	46.1	168.8	33,300	110
115	8.6	130.2	35,500	29.5	154.5	33,500	40.9	163.5	31,500	115
120				21.1	144.0	31,700	35.1	157.1	29,800	120
125				5.6	123.0	29,900	28.3	149.0	28,200	125
130							19.5	137.7	26,700	130

14000 S-2

ANSI B30.5

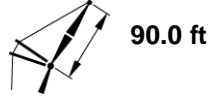
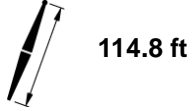


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125										125
130										130
135										135
140										140



ANSI B30.5

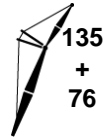
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	56,100							80
85	56.9	193.7	52,000							85
90	53.0	190.2	48,400							90
95	48.9	186.2	45,200	56.5	190.2	42,500				95
100	44.6	181.5	42,400	52.6	186.6	39,900				100
105	39.8	176.0	39,900	48.5	182.5	37,500				105
110	34.6	169.4	37,600	44.1	177.8	35,300	52.0	182.0	33,100	110
115	28.5	161.2	35,500	39.3	172.2	33,400	47.8	177.8	31,200	115
120	20.8	150.3	33,600	34.0	165.4	31,600	43.4	172.9	29,600	120
125	8.1	130.9	31,800	27.8	157.1	29,900	38.5	167.1	28,000	125
130				19.9	145.8	28,400	33.1	160.2	26,600	130
135				5.3	123.4	26,900	26.7	151.5	25,300	135
140							18.3	139.4	24,000	140

14000 S-2

ANSI B30.5



114.8 ft



100.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	75,000 *b				55
60	61.5	210.4	66,500 *	66.6	213.4	71,800 *b				60
65	58.2	207.5	63,700 *	63.4	211.1	68,700 *	67.1	212.8	72,300 *b	65
70	54.7	204.2	61,100 *	60.1	208.4	65,900 *	64.0	210.6	69,300 *	70
75	51.1	200.4	58,700 *	56.8	205.4	63,200 *	60.8	207.9	64,100	75
80	47.4	196.1	56,400 *	53.3	201.9	60,700 *	57.4	204.9	59,100	80
85	43.3	191.1	54,400 *	49.6	197.9	56,800	54.0	201.5	54,800	85
90	39.0	185.4	52,400 *	45.8	193.3	52,900	50.3	197.6	51,100	90
95	34.2	178.7	48,700 *	41.6	188.1	49,400	46.5	193.2	47,700	95
100	28.7	170.5	45,400 *	37.1	182.0	46,400	42.4	188.1	44,800	100
105	22.0	159.9	42,500 *	32.0	174.7	43,600	38.0	182.2	42,100	105
110	12.2	143.6	37,500 *	26.1	165.7	41,100	33.0	175.2	39,700	110
115				18.6	153.6	38,800	27.3	166.6	37,500	115
120				3.8	128.4	34,200 *	20.2	155.2	35,500	120
125							8.7	135.8	33,600	125
130										130
135										135
140										140
145										145
150										150

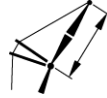


ANSI B30.5

14000 S-2



114.8 ft



100.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	60.6	205.4	51,600							85
90	57.2	202.4	48,000							90
95	53.8	199.0	44,900							95
100	50.1	195.1	42,100	56.9	198.9	39,500				100
105	46.3	190.6	39,600	53.4	195.4	37,100				105
110	42.2	185.5	37,300	49.7	191.4	34,900				110
115	37.7	179.5	35,200	45.9	186.9	33,000	52.8	190.8	30,800	115
120	32.7	172.4	33,300	41.7	181.7	31,200	49.1	186.7	29,200	120
125	27.0	163.7	31,600	37.2	175.6	29,600	45.2	182.1	27,600	125
130	19.8	152.1	30,000	32.2	168.4	28,100	41.0	176.7	26,200	130
135	7.7	131.6	28,500	26.3	159.5	26,700	36.5	170.5	24,900	135
140				18.9	147.5	25,400	31.3	163.1	23,700	140
145				5.0	123.9	24,100	25.3	153.8	22,600	145
150							17.4	141.0	21,500	150

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	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	67,300 *b			60	
65	61.3	219.1	60,900 *	66.0	222.2	64,900 *			65	
70	58.3	216.2	58,700 *	63.1	219.8	62,700 *	66.5	221.6	65,300 *	70
75	55.2	212.9	56,400 *	60.1	217.1	60,500 *	63.6	219.2	63,200 *	75
80	52.0	209.2	54,300 *	57.1	214.0	58,200 *	60.7	216.6	59,100	80
85	48.6	205.1	52,300 *	53.9	210.6	56,000 *	57.7	213.6	54,800	85
90	45.0	200.4	50,400 *	50.6	206.7	52,800	54.5	210.2	51,000	90
95	41.2	195.0	48,700 *	47.2	202.4	49,400	51.3	206.5	47,700	95
100	37.1	188.9	45,900 *	43.5	197.4	46,300	47.8	202.2	44,700	100
105	32.5	181.7	42,800 *	39.6	191.8	43,600	44.2	197.4	42,100	105
110	27.3	173.0	39,900 *	35.3	185.2	41,100	40.3	191.9	39,700	110
115	20.9	161.8	37,300 *	30.5	177.5	38,900	36.1	185.5	37,500	115
120	11.6	144.7	33,000 *	24.9	168.0	36,800	31.4	178.1	35,500	120
125				17.7	155.2	34,900	26.0	168.9	33,700	125
130				3.7	128.7	29,900 *	19.3	156.9	32,000	130
135							8.3	136.6	30,400	135
140										140
145										145
150										150
155										155
160										160



ANSI B30.5

14000 S-2



114.8 ft

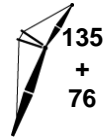


110.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	60.5	214.1	48,000							90
95	57.5	211.1	44,800							95
100	54.4	207.7	42,000							100
105	51.1	203.9	39,500	57.2	207.6	37,000				105
110	47.6	199.6	37,300	54.0	204.1	34,900				110
115	44.0	194.7	35,200	50.7	200.3	33,000				115
120	40.1	189.2	33,300	47.3	195.9	31,200				120
125	35.9	182.8	31,600	43.6	191.0	29,600	50.2	195.6	27,600	125
130	31.2	175.3	30,000	39.7	185.4	28,100	46.7	191.2	26,200	130
135	25.7	166.0	28,600	35.4	178.9	26,700	43.0	186.1	24,900	135
140	18.8	153.8	27,200	30.7	171.2	25,500	39.0	180.4	23,700	140
145	7.3	132.3	25,900	25.1	161.8	24,300	34.7	173.7	22,600	145
150				18.0	149.1	23,100	29.8	165.8	21,600	150
155				4.8	124.3	22,000	24.1	156.0	20,600	155
160							16.6	142.5	19,700	160

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	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	49,600 *	66.0	230.3	50,500 *	75
80	55.6	221.6	46,300 *	60.1	225.7	48,800 *	63.3	227.9	49,800 *	80
85	52.7	218.0	44,500 *	57.3	222.7	47,700 *	60.6	225.3	49,100 *	85
90	49.6	213.9	42,800 *	54.4	219.3	45,900 *	57.9	222.3	48,200 *	90
95	46.4	209.4	41,300 *	51.5	215.5	44,100 *	55.0	219.0	46,300 *	95
100	43.0	204.4	39,700 *	48.3	211.3	42,400 *	52.0	215.3	44,400 *	100
105	39.4	198.7	38,300 *	45.1	206.6	40,900 *	48.9	211.1	41,800 *	105
110	35.5	192.1	37,100 *	41.6	201.3	39,400 *	45.7	206.5	39,400 *	110
115	31.1	184.5	35,900 *	37.8	195.3	38,100 *	42.2	201.3	37,200 *	115
120	26.1	175.4	34,900 *	33.8	188.4	36,600	38.6	195.5	35,200	120
125	20.0	163.6	33,200 *	29.2	180.2	34,700	34.5	188.7	33,400	125
130	11.1	145.7	29,500 *	23.8	170.1	33,000	30.1	180.8	31,800	130
135				17.0	156.7	31,400	24.9	171.2	30,200	135
140				3.5	129.0	26,900 *	18.4	158.6	28,800	140
145							7.9	137.3	27,400	145
150										150
155										155
160										160
165										165
170										170



ANSI B30.5

14000 S-2



114.8 ft

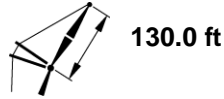
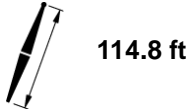
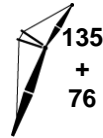


120.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	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	44,500							95
100	57.7	219.8	41,700							100
105	54.8	216.4	39,200							105
110	51.9	212.7	36,900	57.4	216.2	34,500				110
115	48.8	208.6	34,900	54.5	212.9	32,600				115
120	45.5	203.9	33,000	51.6	209.1	30,800				120
125	42.0	198.7	31,300	48.4	204.9	29,200				125
130	38.3	192.8	29,700	45.2	200.2	27,700	51.1	204.4	25,800	130
135	34.3	186.0	28,300	41.7	194.9	26,400	47.9	200.2	24,500	135
140	29.8	178.0	26,900	38.0	188.9	25,100	44.6	195.4	23,300	140
145	24.6	168.3	25,700	33.9	182.0	24,000	41.1	190.0	22,200	145
150	18.0	155.4	24,500	29.3	173.9	22,900	37.3	183.9	21,200	150
155	7.0	132.9	23,400	24.0	163.9	21,800	33.2	176.8	20,300	155
160				17.2	150.7	20,900	28.5	168.4	19,400	160
165				4.6	124.7	19,900	23.0	158.1	18,500	165
170							15.9	143.9	17,700	170

14000 S-2

ANSI B30.5

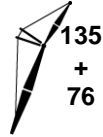


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
50	73.1	246.9	49,300 *b						50	
55	70.8	245.3	48,300 *						55	
60	68.5	243.4	47,400 *						60	
65	66.1	241.4	46,600 *	69.9	243.7	48,200 *			65	
70	63.6	239.0	45,800 *	67.5	241.8	47,400 *			70	
75	61.1	236.4	44,500 *	65.1	239.6	46,700 *	67.9	241.1	47,400 *	75
80	58.6	233.5	42,800 *	62.6	237.1	45,700 *	65.5	239.0	46,800 *	80
85	56.0	230.3	41,100 *	60.1	234.4	44,000 *	63.1	236.6	46,000 *	85
90	53.3	226.7	39,600 *	57.5	231.4	42,400 *	60.6	233.9	44,300 *	90
95	50.5	222.8	38,100 *	54.9	228.0	40,700 *	58.0	230.9	42,700 *	95
100	47.5	218.5	36,600 *	52.1	224.3	39,200 *	55.4	227.7	41,100 *	100
105	44.5	213.6	35,300 *	49.3	220.2	37,800 *	52.7	224.0	39,600 *	105
110	41.2	208.2	34,000 *	46.3	215.7	36,400 *	49.8	220.0	38,200 *	110
115	37.8	202.2	32,800 *	43.2	210.7	35,000 *	46.9	215.6	36,700 *	115
120	34.0	195.3	31,600 *	39.9	205.0	33,700 *	43.8	210.6	35,000 *	120
125	29.9	187.3	30,600 *	36.3	198.6	32,600 *	40.5	205.1	33,200 *	125
130	25.1	177.6	29,700 *	32.4	191.3	31,500 *	37.0	198.9	31,600 *	130
135	19.2	165.4	28,900 *	28.0	182.7	30,500 *	33.1	191.8	30,000 *	135
140	10.7	146.6	26,300 *	22.9	172.2	29,600 *	28.9	183.4	28,600 *	140
145				16.3	158.2	28,400 *	23.9	173.4	27,300 *	145
150				3.4	129.3	24,100 *	17.7	160.2	26,100 *	150
155							7.6	137.9	24,900 *	155
160										160
165										165
170										170
175										175
180										180



ANSI B30.5

14000 S-2



114.8 ft

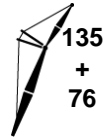


130.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	63.0	234.1	44,200							95
100	60.5	231.4	41,400							100
105	57.9	228.4	38,900							105
110	55.2	225.1	36,700							110
115	52.5	221.5	34,600	57.6	224.9	32,300				115
120	49.7	217.4	32,800	55.0	221.6	30,600				120
125	46.7	213.0	31,100	52.2	217.9	29,000				125
130	43.6	208.0	29,500	49.4	213.8	27,500				130
135	40.3	202.4	28,100	46.4	209.3	26,100	51.8	213.2	24,300	135
140	36.8	196.2	26,700	43.3	204.3	24,900	48.9	209.1	23,100	140
145	32.9	189.0	25,500	40.0	198.6	23,700	45.9	204.5	22,000	145
150	28.6	180.6	24,400	36.4	192.3	22,600	42.8	199.4	21,000	150
155	23.6	170.4	23,300	32.5	185.0	21,600	39.4	193.6	20,000	155
160	17.3	157.0	22,200	28.2	176.5	20,700	35.8	187.1	19,100	160
165	6.7	133.5	21,200	23.1	166.0	19,800	31.8	179.7	18,300	165
170				16.6	152.1	18,900	27.4	170.9	17,500	170
175				4.4	125.1	18,100	22.1	160.1	16,800	175
180							15.2	145.2	16,000	180

14000 S-2

ANSI B30.5



114.8 ft



140.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	43,600 *	80
85	58.7	242.1	37,600 *	62.4	245.8	40,300 *	65.1	247.7	42,100 *	85
90	56.3	239.0	36,100 *	60.1	243.1	38,700 *	62.9	245.3	40,500 *	90
95	53.8	235.5	34,600 *	57.7	240.0	37,200 *	60.5	242.6	39,000 *	95
100	51.2	231.6	33,100 *	55.3	236.7	35,700 *	58.2	239.6	37,500 *	100
105	48.5	227.4	31,800 *	52.7	233.1	34,200 *	55.7	236.4	36,000 *	105
110	45.7	222.8	30,600 *	50.1	229.1	32,900 *	53.2	232.8	34,600 *	110
115	42.8	217.6	29,300 *	47.4	224.7	31,500 *	50.6	228.9	33,200 *	115
120	39.7	211.9	28,200 *	44.5	219.9	30,200 *	47.9	224.6	31,900 *	120
125	36.4	205.5	27,100 *	41.5	214.5	29,100 *	45.1	219.8	30,600 *	125
130	32.7	198.3	26,100 *	38.4	208.6	27,900 *	42.1	214.6	29,400 *	130
135	28.7	189.9	25,100 *	34.9	201.9	26,800 *	39.0	208.7	28,200 *	135
140	24.2	179.8	24,300 *	31.2	194.2	25,900 *	35.6	202.2	27,200 *	140
145	18.5	167.0	23,500 *	27.0	185.2	24,900 *	31.9	194.7	26,100 *	145
150	10.3	147.6	23,000 *	22.0	174.2	24,100 *	27.8	186.0	25,200 *	150
155				15.7	159.6	23,400 *	23.0	175.4	24,300 *	155
160				3.2	129.6	21,500 *	17.1	161.7	23,600	160
165							7.4	138.6	22,500	165
170										170
175										175
180										180
185										185
190										190

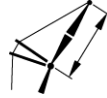


ANSI B30.5

14000 S-2



114.8 ft

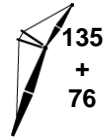


140.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	40,100 *							100
105	60.4	240.1	38,600							105
110	58.0	237.1	36,300							110
115	55.6	233.8	34,300							115
120	53.1	230.2	32,400	57.8	233.6	30,200				120
125	50.5	226.3	30,700	55.3	230.3	28,600				125
130	47.8	222.0	29,200	52.8	226.7	27,100				130
135	44.9	217.2	27,800	50.2	222.7	25,800				135
140	42.0	211.9	26,400	47.5	218.3	24,500	52.4	222.0	22,700	140
145	38.8	206.0	25,200	44.6	213.5	23,400	49.8	218.0	21,600	145
150	35.4	199.4	24,100	41.6	208.2	22,300	47.0	213.5	20,600	150
155	31.7	191.9	23,000	38.5	202.2	21,300	44.2	208.6	19,700	155
160	27.6	183.1	22,000	35.0	195.5	20,400	41.1	203.2	18,800	160
165	22.7	172.5	21,000	31.3	187.9	19,500	37.9	197.1	17,900	165
170	16.7	158.5	20,100	27.1	178.9	18,600	34.5	190.3	17,200	170
175	6.5	134.1	19,200	22.2	168.0	17,800	30.7	182.5	16,400	175
180				15.9	153.6	17,100	26.4	173.3	15,700	180
185				4.3	125.5	16,300	21.3	162.0	15,100	185
190							14.7	146.6	14,400	190

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	38,800 *	85
90	58.8	250.8	33,100 *	62.3	254.5	35,600 *	64.8	256.4	37,300 *	90
95	56.5	247.6	31,600 *	60.1	251.7	34,100 *	62.7	253.9	35,800 *	95
100	54.2	244.2	30,300 *	57.9	248.7	32,700 *	60.5	251.2	34,400 *	100
105	51.8	240.4	29,000 *	55.6	245.4	31,300 *	58.3	248.3	33,000 *	105
110	49.3	236.3	27,700 *	53.2	241.9	29,900 *	56.0	245.1	31,600 *	110
115	46.8	231.8	26,600 *	50.8	237.9	28,700 *	53.7	241.5	30,200 *	115
120	44.1	226.9	25,400 *	48.3	233.7	27,500 *	51.3	237.7	29,000 *	120
125	41.3	221.5	24,300 *	45.7	229.0	26,200 *	48.8	233.5	27,800 *	125
130	38.3	215.5	23,300 *	43.0	223.9	25,100 *	46.2	228.9	26,500 *	130
135	35.1	208.7	22,300 *	40.1	218.3	24,000 *	43.5	223.9	25,400 *	135
140	31.6	201.2	21,400 *	37.0	212.0	23,000 *	40.6	218.4	24,300 *	140
145	27.8	192.4	20,500 *	33.7	204.9	22,100 *	37.6	212.2	23,300 *	145
150	23.3	181.9	19,700 *	30.1	196.9	21,100 *	34.3	205.3	22,300 *	150
155	17.9	168.6	19,100 *	26.0	187.5	20,300 *	30.8	197.5	21,400 *	155
160	9.9	148.4	18,600 *	21.3	176.1	19,500 *	26.8	188.4	20,500 *	160
165				15.2	160.9	18,900 *	22.2	177.4	19,700 *	165
170				3.1	129.9	18,500 *	16.5	163.2	19,100 *	170
175							7.1	139.2	18,600 *	175
180										180
185										185
190										190
195										195
200										200



ANSI B30.5

14000 S-2



114.8 ft



150.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	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	35,400 *							105
110	60.4	248.7	34,100 *							110
115	58.2	245.8	32,700 *							115
120	55.9	242.5	31,400 *							120
125	53.6	239.0	30,200 *	57.9	242.2	28,500				125
130	51.1	235.1	28,900 *	55.7	239.0	27,000				130
135	48.6	230.9	27,700	53.3	235.4	25,700				135
140	46.0	226.3	26,300	50.9	231.5	24,400				140
145	43.3	221.2	25,100	48.4	227.3	23,300	52.9	230.8	21,500	145
150	40.5	215.7	24,000	45.8	222.6	22,200	50.5	226.8	20,500	150
155	37.4	209.5	22,900	43.0	217.5	21,200	48.0	222.5	19,500	155
160	34.2	202.6	21,900	40.2	211.9	20,300	45.3	217.8	18,700	160
165	30.6	194.7	21,000	37.1	205.6	19,400	42.6	212.6	17,800	165
170	26.6	185.5	20,100	33.8	198.6	18,600	39.7	206.9	17,100	170
175	22.0	174.4	19,300	30.2	190.6	17,800	36.6	200.5	16,300	175
180	16.1	159.9	18,500	26.2	181.3	17,000	33.3	193.4	15,700	180
185	6.2	134.6	17,700	21.4	170.0	16,300	29.6	185.2	15,000	185
190				15.4	154.9	15,700	25.5	175.6	14,400	190
195				4.1	125.9	15,000	20.6	163.8	13,800	195
200							14.2	147.8	13,200	200

14000 S-2

ANSI B30.5



114.8 ft



160.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	lb	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	31,200 *	100
105	54.6	252.9	26,000 *	58.0	257.4	28,200 *	60.5	259.9	29,800 *	105
110	52.3	249.2	24,800 *	55.9	254.1	26,900 *	58.4	257.0	28,500 *	110
115	50.0	245.2	23,600 *	53.7	250.6	25,600 *	56.3	253.7	27,200 *	115
120	47.7	240.8	22,500 *	51.4	246.8	24,400 *	54.1	250.3	25,900 *	120
125	45.2	236.1	21,400 *	49.1	242.6	23,300 *	51.8	246.5	24,700 *	125
130	42.6	230.9	20,400 *	46.7	238.1	22,100 *	49.5	242.4	23,500 *	130
135	39.9	225.2	19,400 *	44.2	233.2	21,100 *	47.1	237.9	22,500 *	135
140	37.0	218.9	18,400 *	41.5	227.8	20,100 *	44.6	233.1	21,300 *	140
145	33.9	211.9	17,600 *	38.8	221.8	19,100 *	42.0	227.8	20,300 *	145
150	30.6	203.9	16,800 *	35.8	215.3	18,200 *	39.3	222.0	19,400 *	150
155	26.9	194.8	16,000 *	32.6	207.9	17,400 *	36.4	215.5	18,500 *	155
160	22.6	183.9	15,300 *	29.1	199.6	16,500 *	33.2	208.3	17,600 *	160
165	17.3	170.2	14,700 *	25.2	189.8	15,800 *	29.8	200.2	16,700 *	165
170	9.6	149.3	13,900 *	20.6	178.0	15,100 *	26.0	190.7	16,000 *	170
175				14.7	162.2	14,400 *	21.5	179.4	15,300 *	175
180				3.0	130.2	13,700 *	15.9	164.6	14,600 *	180
185							6.9	139.9	13,900 *	185
190										190
195										195
200										200
205										205
210										210



ANSI B30.5

14000 S-2



114.8 ft



160.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	30,800 *							110
115	60.4	257.4	29,500 *							115
120	58.3	254.4	28,200 *							120
125	56.2	251.2	27,000 *							125
130	54.0	247.7	25,800 *							130
135	51.7	243.9	24,600 *	55.9	247.7	25,300				135
140	49.4	239.8	23,500 *	53.7	244.1	24,100				140
145	47.0	235.3	22,400 *	51.5	240.3	22,900				145
150	44.5	230.5	21,300 *	49.2	236.2	21,900				150
155	41.9	225.1	20,300 *	46.8	231.7	20,900	51.1	235.7	19,200	155
160	39.1	219.3	19,400 *	44.2	226.8	19,900	48.8	231.4	18,300	160
165	36.2	212.8	18,500 *	41.6	221.4	19,100	46.4	226.9	17,500	165
170	33.1	205.6	17,600 *	38.8	215.5	18,200	43.8	221.9	16,700	170
175	29.6	197.4	16,700 *	35.9	208.9	17,500	41.2	216.4	16,000	175
180	25.8	187.8	16,000 *	32.7	201.6	16,700	38.4	210.4	15,300	180
185	21.3	176.3	15,300 *	29.2	193.3	16,000	35.4	203.8	14,700	185
190	15.6	161.3	14,600 *	25.3	183.6	15,400	32.2	196.3	14,000	190
195	6.0	135.2	13,900 *	20.8	171.8	14,800	28.6	187.8	13,500	195
200				14.9	156.3	14,100	24.6	177.8	12,900	200
205				4.0	126.2	13,500	19.9	165.6	12,400	205
210							13.7	149.1	11,800	210

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	21,300 *	130
135	43.8	240.1	17,300 *	47.5	247.1	18,900 *	50.2	251.3	20,200 *	135
140	41.3	234.7	16,400 *	45.2	242.3	17,900 *	48.0	246.9	19,200 *	140
145	38.7	228.7	15,500 *	42.8	237.1	17,000 *	45.6	242.2	18,200 *	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
220										220



ANSI B30.5

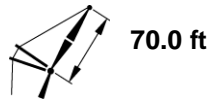
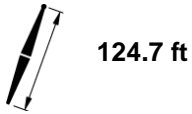
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	26,900 *							115
120	60.3	266.0	25,700 *							120
125	58.4	263.1	24,500 *							125
130	56.4	259.9	23,400 *							130
135	54.3	256.4	22,300 *							135
140	52.2	252.7	21,200 *	56.2	256.4	23,100 *				140
145	50.1	248.7	20,100 *	54.1	252.9	22,000 *				145
150	47.8	244.3	19,100 *	52.0	249.1	21,000 *				150
155	45.5	239.6	18,100 *	49.9	245.1	20,000 *				155
160	43.1	234.5	17,200 *	47.6	240.7	19,000 *	51.7	244.5	18,000	160
165	40.6	228.9	16,300 *	45.3	235.9	18,100 *	49.5	240.4	17,200	165
170	37.9	222.8	15,500 *	42.9	230.7	17,100 *	47.2	235.9	16,500	170
175	35.1	216.0	14,700 *	40.3	225.1	16,300 *	44.9	231.1	15,700	175
180	32.0	208.5	13,900 *	37.6	218.9	15,400 *	42.5	225.9	15,100	180
185	28.7	200.0	12,900 *	34.8	212.1	14,600 *	39.9	220.1	14,400	185
190	25.0	190.1	12,000 *	31.7	204.5	13,900 *	37.2	213.9	13,800	190
195	20.6	178.2	11,100 *	28.3	195.8	12,800 *	34.3	206.9	13,200	195
200	15.1	162.7	10,400 *	24.6	185.8	11,900 *	31.2	199.1	12,700	200
205	5.9	135.7	9,700 *	20.1	173.6	11,100 *	27.8	190.3	12,200	205
210				14.5	157.6	10,300 *	23.9	179.9	11,700	210
215				3.9	126.6	9,700 *	19.3	167.3	11,000 *	215
220							13.3	150.2	10,300 *	220

14000 S-2

ANSI B30.5

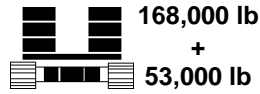
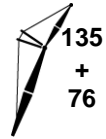


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
32	74.1	199.7	101,200 *d							32
34	72.3	199.1	101,200 *c							34
36	70.6	198.4	101,200 *c							36
38	68.9	197.7	101,200 *c							38
40	67.1	196.9	101,200 *c							40
45	62.6	194.5	100,300 *b	70.3	197.4	102,600 *c				45
50	57.9	191.6	94,600 *b	65.9	195.4	101,000 *c				50
55	52.9	188.2	87,800 *b	61.3	192.9	93,400 *b	67.2	194.9	94,800 c	55
60	47.6	184.0	81,700 *	56.6	189.9	86,700 *b	62.7	192.6	84,900 b	60
65	41.7	179.0	76,200 *	51.5	186.2	79,600 b	58.0	189.7	76,800 b	65
70	35.2	172.7	71,200 *	46.1	181.9	72,600	53.0	186.3	70,100 b	70
75	27.3	164.4	66,700 *	40.1	176.5	66,600	47.7	182.1	64,300	75
80	16.2	151.9	56,200 *	33.2	169.8	61,500	41.9	177.1	59,400	80
85				24.7	160.7	57,000	35.3	170.8	55,000	85
90				11.6	145.5	53,000	27.4	162.6	51,200	90
95							16.4	150.2	47,800	95
100										100
105										105
110										110
115										115
120										120
125										125

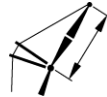


ANSI B30.5

14000 S-2



124.7 ft

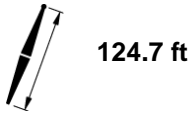


70.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	lb	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	60,400 b						75	
80	53.6	184.1	55,800 b						80	
85	48.3	180.1	51,700						85	
90	42.6	175.2	48,200	53.9	180.9	45,100 b			90	
95	36.1	169.1	45,000	48.6	176.9	42,100			95	
100	28.4	161.1	42,200	42.9	172.1	39,500			100	
105	18.0	149.5	39,600	36.5	166.0	37,100	48.6	172.6	34,600	105
110				29.0	158.3	35,000	42.9	167.7	32,600	110
115				18.8	147.0	33,000	36.5	161.7	30,800	115
120							28.9	153.9	29,100	120
125							18.8	142.6	27,600	125

14000 S-2

ANSI B30.5



	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	93,400 *c				50
55	58.1	200.3	82,400 *b	65.2	204.1	89,400 *b				55
60	53.8	196.9	79,200 *	61.2	201.5	83,700 *b	66.3	203.6	84,600 b	60
65	49.2	193.0	74,100 *	57.0	198.5	78,200 *b	62.3	201.2	76,500 b	65
70	44.3	188.3	69,600 *	52.6	195.0	72,300	58.2	198.4	69,700 b	70
75	38.9	182.6	65,400 *	48.0	190.9	66,400	53.9	195.0	64,000	75
80	32.8	175.7	61,500 *	42.9	185.9	61,300	49.3	191.1	59,100	80
85	25.5	166.8	57,400 *	37.4	180.0	56,800	44.4	186.4	54,800	85
90	15.1	153.2	48,600 *	31.0	172.6	52,900	39.0	180.8	51,000	90
95				23.1	162.9	49,500	32.9	173.9	47,700	95
100				10.8	146.5	46,300	25.6	165.0	44,700	100
105							15.4	151.6	42,000	105
110										110
115										115
120										120
125										125
130										130
135										135



ANSI B30.5

14000 S-2



124.7 ft

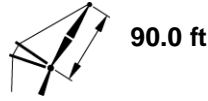
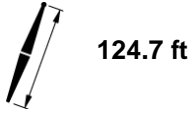
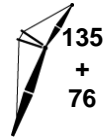


80.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
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	60,000 b						75	
80	58.7	196.2	55,400 b						80	
85	54.4	192.9	51,400						85	
90	49.9	189.0	47,800						90	
95	45.0	184.4	44,700	54.7	189.6	41,700			95	
100	39.7	178.9	41,900	50.2	185.8	39,100			100	
105	33.7	172.2	39,400	45.3	181.3	36,800			105	
110	26.6	163.6	37,100	40.0	175.8	34,700	50.1	181.4	32,200	110
115	16.9	151.0	35,000	34.1	169.2	32,700	45.3	176.9	30,400	115
120				27.1	160.7	31,000	40.0	171.5	28,800	120
125				17.6	148.6	29,300	34.1	164.8	27,300	125
130							27.0	156.4	25,900	130
135							17.6	144.1	24,500	135

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38										38
40										40
45										45
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										110
115										115
120										120
125										125
130										130
135										135
140										140
145										145



ANSI B30.5

14000 S-2



124.7 ft

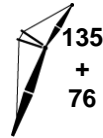


90.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	62.5	207.6	55,100 b							80
85	58.8	204.8	51,100							85
90	55.0	201.6	47,600							90
95	51.1	197.8	44,500							95
100	46.8	193.5	41,700	55.3	198.4	38,900				100
105	42.3	188.4	39,200	51.3	194.6	36,600				105
110	37.3	182.4	37,000	47.1	190.3	34,500				110
115	31.7	175.1	34,900	42.6	185.3	32,500	51.3	190.3	30,200	115
120	25.0	165.9	33,100	37.7	179.4	30,800	47.1	185.9	28,600	120
125	15.9	152.5	31,300	32.1	172.2	29,200	42.6	180.9	27,100	125
130				25.5	163.1	27,700	37.6	175.0	25,700	130
135				16.6	150.1	26,300	32.1	167.8	24,400	135
140							25.4	158.7	23,200	140
145							16.5	145.6	22,100	145

14000 S-2

ANSI B30.5



124.7 ft



100.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	75,000 *b				55
60	61.8	220.5	66,400 *	67.3	223.7	71,900 *b				60
65	58.5	217.6	63,600 *	64.2	221.5	69,000 *b				65
70	55.1	214.4	61,100 *	60.9	218.9	66,300 *	65.1	221.1	69,200 b	70
75	51.5	210.6	58,700 *	57.6	215.9	63,600 *	61.9	218.6	63,400	75
80	47.8	206.4	56,500 *	54.1	212.5	60,800	58.6	215.7	58,500	80
85	43.8	201.5	54,500 *	50.5	208.6	56,400	55.2	212.4	54,300	85
90	39.4	195.9	52,600 *	46.7	204.2	52,600	51.6	208.7	50,500	90
95	34.7	189.3	49,000 *	42.6	199.2	49,100	47.8	204.5	47,200	95
100	29.3	181.3	45,700 *	38.2	193.3	46,100	43.8	199.6	44,300	100
105	22.7	171.0	42,800 *	33.3	186.4	43,300	39.5	194.0	41,700	105
110	13.5	155.7	38,500 *	27.7	177.9	40,800	34.8	187.4	39,300	110
115				20.6	166.7	38,600	29.4	179.4	37,100	115
120				9.7	148.3	36,500	22.9	169.2	35,100	120
125							13.7	154.1	33,300	125
130										130
135										135
140										140
145										145
150										150
155										155



ANSI B30.5

14000 S-2



124.7 ft



100.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	62.2	216.3	50,700							85
90	59.0	213.5	47,200							90
95	55.6	210.3	44,100							95
100	52.0	206.6	41,400							100
105	48.3	202.4	38,900	55.8	207.1	36,100				105
110	44.3	197.7	36,600	52.2	203.4	34,100				110
115	40.0	192.2	34,600	48.5	199.3	32,200				115
120	35.4	185.7	32,800	44.6	194.5	30,400	52.2	199.1	28,100	120
125	30.0	177.9	31,100	40.3	189.1	28,800	48.5	194.9	26,700	125
130	23.7	168.0	29,500	35.7	182.7	27,400	44.5	190.2	25,300	130
135	15.1	153.8	28,000	30.4	175.0	26,000	40.3	184.7	24,000	135
140				24.1	165.3	24,800	35.6	178.3	22,900	140
145				15.7	151.5	23,600	30.4	170.6	21,800	145
150							24.1	160.9	20,800	150
155							15.7	147.1	19,800	155

14000 S-2

ANSI B30.5



124.7 ft



110.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	67,100 *b				60
65	61.7	229.2	60,700 *	66.7	232.4	64,900 *				65
70	58.6	226.3	58,500 *	63.8	230.1	62,700 *	67.5	232.0	65,300 *b	70
75	55.5	223.1	56,400 *	60.9	227.5	60,600 *	64.6	229.8	63,300 *	75
80	52.3	219.4	54,300 *	57.8	224.6	58,500 *	61.7	227.2	58,500 *	80
85	49.0	215.3	52,300 *	54.7	221.2	56,300 *	58.7	224.4	54,200 *	85
90	45.4	210.7	50,500 *	51.4	217.5	52,500	55.6	221.1	50,500	90
95	41.6	205.4	48,800 *	48.0	213.2	49,100	52.4	217.5	47,200	95
100	37.5	199.4	46,400 *	44.4	208.4	46,000	49.0	213.4	44,300	100
105	33.0	192.3	43,300 *	40.6	203.0	43,300	45.5	208.8	41,600	105
110	27.9	183.8	40,400 *	36.4	196.7	40,900	41.7	203.5	39,300	110
115	21.7	173.0	37,800 *	31.7	189.3	38,600	37.6	197.5	37,100	115
120	12.9	156.9	34,200 *	26.3	180.3	36,600	33.1	190.5	35,100	120
125				19.7	168.5	34,700	28.0	182.0	33,300	125
130				9.2	149.1	32,900	21.8	171.2	31,700	130
135							13.1	155.3	30,100	135
140										140
145										145
150										150
155										155
160										160
165										165

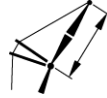


ANSI B30.5

14000 S-2



124.7 ft

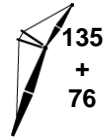


110.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	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	47,200							90
95	59.1	222.2	44,100							95
100	56.0	219.0	41,300							100
105	52.8	215.4	38,800							105
110	49.4	211.4	36,600	56.2	215.7	34,000				110
115	45.9	206.8	34,600	53.0	212.2	32,100				115
120	42.1	201.6	32,800	49.6	208.2	30,400				120
125	38.1	195.7	31,100	46.1	203.6	28,800	53.0	207.8	26,600	125
130	33.7	188.8	29,500	42.4	198.5	27,400	49.6	203.8	25,300	130
135	28.6	180.5	28,100	38.4	192.6	26,000	46.1	199.3	24,000	135
140	22.6	170.1	26,700	33.9	185.8	24,800	42.4	194.1	22,900	140
145	14.4	155.1	25,500	29.0	177.6	23,600	38.3	188.3	21,800	145
150				23.0	167.4	22,500	33.9	181.4	20,800	150
155				15.0	152.9	21,500	28.9	173.2	19,800	155
160							23.0	163.0	19,000	160
165							15.0	148.4	18,100	165

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ANSI B30.5



124.7 ft



120.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	49,200 *	66.9	240.7	50,100 *	75
80	55.9	231.8	46,300 *	60.8	236.2	48,400 *	64.2	238.4	49,400 *	80
85	53.0	228.2	44,600 *	58.0	233.2	47,600 *	61.6	235.9	48,700 *	85
90	49.9	224.2	42,900 *	55.1	229.9	46,200 *	58.8	233.0	48,100 *	90
95	46.7	219.8	41,400 *	52.2	226.2	44,400 *	56.0	229.8	46,800 *	95
100	43.4	214.8	39,900 *	49.1	222.1	42,800 *	53.0	226.3	43,900	100
105	39.8	209.1	38,400 *	45.9	217.6	41,200 *	50.0	222.3	41,300	105
110	35.9	202.7	37,200 *	42.4	212.4	39,800 *	46.8	217.9	39,000	110
115	31.6	195.2	36,000 *	38.8	206.6	38,400	43.4	212.9	36,800	115
120	26.7	186.2	35,000 *	34.8	199.9	36,300	39.8	207.2	34,900	120
125	20.7	174.8	33,600 *	30.3	192.1	34,500	36.0	200.8	33,100	125
130	12.3	158.0	30,500 *	25.2	182.6	32,800	31.7	193.4	31,400	130
135				18.8	170.2	31,200	26.8	184.4	29,900	135
140				8.8	149.9	29,600	20.9	173.1	28,500	140
145							12.5	156.4	27,100	145
150										150
155										155
160										160
165										165
170										170
175										175



ANSI B30.5

14000 S-2



124.7 ft

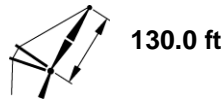
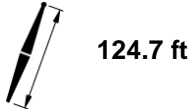


120.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	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	43,700							95
100	59.1	230.8	40,900							100
105	56.3	227.7	38,500							105
110	53.4	224.1	36,300							110
115	50.4	220.2	34,200	56.5	224.4	31,700				115
120	47.2	215.9	32,400	53.6	220.9	30,000				120
125	43.8	210.9	30,700	50.6	217.0	28,400				125
130	40.3	205.4	29,200	47.4	212.7	27,000				130
135	36.4	199.1	27,800	44.1	207.8	25,700	50.5	212.7	23,600	135
140	32.2	191.7	26,400	40.5	202.3	24,400	47.4	208.3	22,500	140
145	27.4	183.0	25,200	36.7	196.0	23,300	44.0	203.4	21,400	145
150	21.6	172.0	24,100	32.5	188.8	22,200	40.5	197.9	20,400	150
155	13.7	156.4	23,000	27.7	180.1	21,200	36.7	191.7	19,500	155
160				22.0	169.4	20,300	32.4	184.4	18,600	160
165				14.4	154.1	19,400	27.7	175.7	17,800	165
170							22.0	164.9	17,000	170
175							14.3	149.7	16,300	175

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	45,600 *	66.4	249.5	46,300 *	80
85	56.2	240.4	41,200 *	60.7	244.9	44,200 *	63.9	247.1	45,800 *	85
90	53.6	236.9	39,600 *	58.2	241.9	42,600 *	61.4	244.6	44,700 *	90
95	50.8	233.1	38,200 *	55.5	238.6	41,000 *	58.9	241.7	43,100 *	95
100	47.9	228.8	36,700 *	52.8	235.0	39,500 *	56.3	238.5	41,500 *	100
105	44.8	224.0	35,400 *	50.0	231.0	38,000 *	53.6	235.0	40,000 *	105
110	41.6	218.7	34,100 *	47.1	226.6	36,600 *	50.8	231.1	38,500 *	110
115	38.2	212.7	32,900 *	44.0	221.7	35,300 *	47.9	226.8	36,600 *	115
120	34.4	205.9	31,800 *	40.7	216.2	34,000 *	44.9	222.1	34,600 *	120
125	30.3	198.0	30,800 *	37.2	210.0	32,900 *	41.7	216.8	32,900 *	125
130	25.6	188.6	29,800 *	33.4	202.9	31,700 *	38.2	210.8	31,200 *	130
135	19.9	176.6	29,100 *	29.1	194.7	30,800 *	34.5	204.0	29,700 *	135
140	11.8	159.1	27,200 *	24.2	184.7	29,600 *	30.4	196.1	28,300 *	140
145				18.1	171.8	28,200 *	25.7	186.7	27,000 *	145
150				8.5	150.6	26,900 *	20.0	174.9	25,800 *	150
155							12.0	157.5	24,600 *	155
160										160
165										165
170										170
175										175
180										180
185										185



ANSI B30.5

14000 S-2



124.7 ft

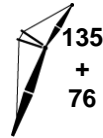


130.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	40,700							100
105	59.2	239.5	38,200							105
110	56.6	236.4	36,000							110
115	53.9	232.9	34,000							115
120	51.1	229.1	32,200	56.8	233.1	29,700				120
125	48.3	224.8	30,500	54.1	229.7	28,200				125
130	45.2	220.1	29,000	51.3	225.9	26,700				130
135	42.0	214.9	27,500	48.4	221.6	25,400				135
140	38.6	209.0	26,200	45.4	217.0	24,200	51.3	221.5	22,200	140
145	34.9	202.3	25,000	42.2	211.7	23,100	48.4	217.3	21,100	145
150	30.9	194.6	23,900	38.8	205.9	22,000	45.4	212.6	20,200	150
155	26.3	185.4	22,800	35.2	199.3	21,000	42.2	207.4	19,200	155
160	20.8	173.9	21,800	31.2	191.6	20,100	38.8	201.5	18,400	160
165	13.2	157.5	20,900	26.6	182.6	19,200	35.2	194.9	17,600	165
170				21.1	171.3	18,400	31.1	187.2	16,800	170
175				13.8	155.4	17,600	26.6	178.2	16,100	175
180							21.1	166.9	15,400	180
185							13.7	150.9	14,700	185

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	42,500 *	85
90	56.5	249.1	36,100 *	60.7	253.5	38,900 *	63.7	255.8	40,900 *	90
95	54.0	245.7	34,700 *	58.3	250.6	37,400 *	61.3	253.2	39,400 *	95
100	51.5	241.9	33,200 *	55.9	247.3	35,900 *	59.0	250.4	37,900 *	100
105	48.8	237.7	32,000 *	53.3	243.8	34,600 *	56.6	247.2	36,400 *	105
110	46.0	233.1	30,700 *	50.8	239.9	33,200 *	54.1	243.7	35,000 *	110
115	43.1	228.0	29,400 *	48.1	235.6	31,800 *	51.5	239.9	33,700 *	115
120	40.0	222.4	28,300 *	45.2	230.9	30,500 *	48.8	235.8	32,300 *	120
125	36.7	216.1	27,200 *	42.3	225.6	29,300 *	46.1	231.2	31,000 *	125
130	33.1	208.9	26,200 *	39.1	219.8	28,200 *	43.2	226.1	29,800 *	130
135	29.2	200.6	25,200 *	35.8	213.3	27,100 *	40.1	220.5	28,700 *	135
140	24.7	190.8	24,400 *	32.1	205.9	26,100 *	36.8	214.2	27,500 *	140
145	19.2	178.4	23,600 *	28.0	197.2	25,100 *	33.2	207.0	26,500 *	145
150	11.4	160.1	23,100 *	23.3	186.8	24,300 *	29.3	198.8	25,500 *	150
155				17.4	173.4	23,600 *	24.8	189.0	24,400 *	155
160				8.2	151.4	23,100 *	19.3	176.6	23,300 *	160
165							11.6	158.5	22,300 *	165
170										170
175										175
180										180
185										185
190										190
195										195



ANSI B30.5

14000 S-2



124.7 ft



140.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	37,800							105
110	59.3	248.1	35,600							110
115	56.8	245.0	33,600							115
120	54.4	241.6	31,800							120
125	51.8	237.9	30,100	57.0	241.8	27,800				125
130	49.2	233.7	28,600	54.5	238.4	26,400				130
135	46.4	229.2	27,200	52.0	234.6	25,000				135
140	43.5	224.2	25,900	49.3	230.6	23,800				140
145	40.4	218.6	24,700	46.6	226.0	22,700	52.0	230.3	20,700	145
150	37.2	212.4	23,600	43.7	221.1	21,600	49.3	226.2	19,800	150
155	33.6	205.4	22,500	40.6	215.5	20,700	46.6	221.7	18,900	155
160	29.7	197.3	21,500	37.4	209.4	19,700	43.7	216.7	18,000	160
165	25.3	187.7	20,600	33.9	202.4	18,900	40.6	211.2	17,200	165
170	20.0	175.7	19,700	30.0	194.4	18,100	37.4	205.0	16,400	170
175	12.7	158.7	18,900	25.6	184.9	17,300	33.8	198.0	15,700	175
180				20.4	173.1	16,600	30.0	190.0	15,100	180
185				13.3	156.6	15,900	25.6	180.5	14,400	185
190							20.3	168.7	13,800	190
195							13.2	152.1	13,200	195

14000 S-2

ANSI B30.5



124.7 ft



150.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	39,000 *	85
90	59.0	261.0	33,200 *	62.8	264.9	35,800 *	65.5	266.9	37,600 *	90
95	56.8	257.8	31,700 *	60.6	262.2	34,400 *	63.4	264.5	36,200 *	95
100	54.4	254.4	30,400 *	58.4	259.2	32,900 *	61.3	261.9	34,800 *	100
105	52.1	250.7	29,100 *	56.1	256.0	31,600 *	59.1	259.0	33,400 *	105
110	49.6	246.6	27,900 *	53.8	252.5	30,300 *	56.8	255.9	32,000 *	110
115	47.0	242.1	26,700 *	51.4	248.7	29,000 *	54.5	252.5	30,700 *	115
120	44.4	237.2	25,500 *	48.9	244.5	27,700 *	52.1	248.7	29,400 *	120
125	41.6	231.9	24,500 *	46.3	239.9	26,500 *	49.6	244.7	28,100 *	125
130	38.6	225.9	23,400 *	43.6	234.9	25,400 *	47.1	240.2	26,900 *	130
135	35.4	219.3	22,400 *	40.8	229.4	24,300 *	44.4	235.4	25,800 *	135
140	32.0	211.8	21,500 *	37.8	223.3	23,300 *	41.6	230.0	24,700 *	140
145	28.2	203.2	20,700 *	34.5	216.5	22,300 *	38.7	224.1	23,700 *	145
150	23.8	192.9	19,800 *	31.0	208.7	21,400 *	35.5	217.4	22,700 *	150
155	18.5	180.0	19,100 *	27.1	199.7	20,600 *	32.1	210.0	21,800 *	155
160	11.0	161.1	18,600 *	22.5	188.9	19,800 *	28.2	201.4	20,900 *	160
165				16.8	174.9	19,100 *	23.9	191.1	20,000 *	165
170				7.9	152.1	18,700 *	18.6	178.3	19,300 *	170
175							11.2	159.5	18,800 *	175
180										180
185										185
190										190
195										195
200										200
205										205

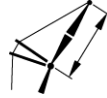


ANSI B30.5

14000 S-2



124.7 ft

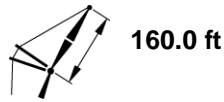
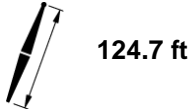


150.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	34,600 *							110
115	59.3	256.8	33,300 *							115
120	57.1	253.7	31,700							120
125	54.8	250.3	30,000							125
130	52.4	246.6	28,500	57.2	250.5	26,200				130
135	49.9	242.6	27,100	54.9	247.1	24,900				135
140	47.4	238.2	25,800	52.5	243.4	23,700				140
145	44.7	233.4	24,600	50.1	239.4	22,600				145
150	41.9	228.1	23,500	47.5	235.0	21,500	52.5	239.1	19,700	150
155	39.0	222.2	22,400	44.9	230.2	20,600	50.1	235.1	18,700	155
160	35.9	215.7	21,500	42.1	225.0	19,700	47.5	230.7	17,900	160
165	32.5	208.3	20,500	39.2	219.2	18,800	44.9	225.9	17,100	165
170	28.7	199.9	19,700	36.1	212.7	18,000	42.1	220.6	16,400	170
175	24.4	189.9	18,900	32.7	205.4	17,200	39.2	214.8	15,600	175
180	19.3	177.4	18,100	29.0	197.0	16,500	36.1	208.3	15,000	180
185	12.3	159.8	17,300	24.7	187.1	15,800	32.7	201.0	14,300	185
190				19.7	174.9	15,200	28.9	192.6	13,700	190
195				12.8	157.7	14,500	24.7	182.7	13,200	195
200							19.6	170.4	12,600	200
205							12.8	153.2	12,100	205

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	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	32,900 *	95
100	57.0	266.5	27,400 *	60.6	270.8	29,800 *	63.2	273.2	31,500 *	100
105	54.8	263.1	26,100 *	58.5	267.9	28,400 *	61.2	270.5	30,100 *	105
110	52.6	259.4	24,900 *	56.4	264.7	27,100 *	59.1	267.7	28,900 *	110
115	50.3	255.4	23,700 *	54.2	261.2	25,900 *	57.0	264.6	27,600 *	115
120	47.9	251.1	22,600 *	52.0	257.5	24,700 *	54.8	261.2	26,300 *	120
125	45.5	246.4	21,500 *	49.7	253.4	23,500 *	52.6	257.5	25,100 *	125
130	42.9	241.3	20,500 *	47.3	249.0	22,400 *	50.3	253.5	24,000 *	130
135	40.2	235.6	19,500 *	44.8	244.1	21,400 *	48.0	249.2	22,800 *	135
140	37.3	229.4	18,600 *	42.2	238.9	20,300 *	45.5	244.5	21,700 *	140
145	34.3	222.4	17,700 *	39.4	233.1	19,400 *	42.9	239.4	20,700 *	145
150	30.9	214.6	16,900 *	36.5	226.7	18,500 *	40.2	233.7	19,700 *	150
155	27.3	205.6	16,100 *	33.4	219.5	17,600 *	37.4	227.5	18,800 *	155
160	23.0	195.0	15,400 *	30.0	211.4	16,800 *	34.3	220.6	17,900 *	160
165	17.9	181.6	14,700 *	26.2	202.1	16,000 *	31.0	212.8	17,100 *	165
170	10.7	162.0	14,000 *	21.8	190.8	15,300 *	27.3	203.8	16,200 *	170
175				16.3	176.3	14,600 *	23.1	193.2	15,600 *	175
180				7.7	152.7	13,900 *	18.0	179.9	14,900 *	180
185							10.9	160.5	14,200 *	185
190										190
195										195
200										200
205										205
210										210
215										215



ANSI B30.5

14000 S-2



124.7 ft

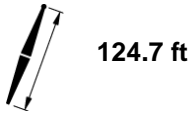


160.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	30,000 *							115
120	59.4	265.5	28,800 *							120
125	57.2	262.4	27,600 *							125
130	55.1	259.0	26,400 *							130
135	52.9	255.4	25,200 *	57.4	259.1	24,500				135
140	50.6	251.5	24,100 *	55.2	255.8	23,300				140
145	48.2	247.2	23,000 *	53.0	252.2	22,200				145
150	45.8	242.5	21,900 *	50.7	248.3	21,200				150
155	43.2	237.4	20,900 *	48.4	244.0	20,200				155
160	40.6	231.9	19,900 *	45.9	239.4	19,300	50.7	243.9	17,500	160
165	37.7	225.7	19,000 *	43.4	234.3	18,400	48.4	239.6	16,700	165
170	34.7	218.9	18,100 *	40.7	228.8	17,600	45.9	235.0	16,000	170
175	31.4	211.2	17,200 *	37.9	222.7	16,900	43.4	229.9	15,300	175
180	27.8	202.4	16,400 *	34.9	215.9	16,200	40.7	224.4	14,600	180
185	23.7	192.0	15,700 *	31.6	208.2	15,500	37.9	218.3	14,000	185
190	18.7	179.1	15,000 *	28.0	199.5	14,900	34.9	211.5	13,400	190
195	11.9	160.8	14,300 *	23.9	189.3	14,300	31.6	203.9	12,800	195
200				19.0	176.6	13,700	28.0	195.1	12,300	200
205				12.4	158.8	13,100	23.9	184.9	11,800	205
210							19.0	172.1	11,300	210
215							12.4	154.4	10,800	215

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	25,100 *	115
120	50.9	264.3	20,400 *	54.6	270.0	22,400 *	57.2	273.2	23,900 *	120
125	48.7	260.0	19,300 *	52.5	266.3	21,300 *	55.2	269.9	22,700 *	125
130	46.4	255.5	18,400 *	50.3	262.3	20,200 *	53.1	266.3	21,600 *	130
135	44.0	250.5	17,400 *	48.1	258.0	19,100 *	50.9	262.4	20,500 *	135
140	41.5	245.1	16,500 *	45.8	253.3	18,200 *	48.7	258.1	19,500 *	140
145	38.9	239.2	15,600 *	43.4	248.2	17,300 *	46.4	253.6	18,500 *	145
150	36.2	232.7	14,800 *	40.9	242.7	16,400 *	44.1	248.6	17,500 *	150
155	33.2	225.5	14,000 *	38.2	236.6	15,500 *	41.6	243.2	16,600 *	155
160	30.0	217.4	13,200 *	35.4	229.9	14,700 *	39.0	237.3	15,800 *	160
165	26.4	208.0	12,300 *	32.4	222.5	13,900 *	36.2	230.8	15,000 *	165
170	22.3	197.0	11,400 *	29.1	214.1	13,000 *	33.3	223.6	14,200 *	170
175	17.4	183.2	10,600 *	25.4	204.4	12,100 *	30.1	215.5	13,300 *	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
220										220
225										225



ANSI B30.5

14000 S-2



124.7 ft



170.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	26,200 *							120
125	59.4	274.1	25,100 *							125
130	57.4	271.1	23,900 *							130
135	55.4	267.7	22,800 *							135
140	53.3	264.1	21,700 *	57.5	267.8	23,100				140
145	51.2	260.3	20,700 *	55.5	264.5	22,000				145
150	49.0	256.1	19,700 *	53.4	260.9	20,900				150
155	46.7	251.6	18,700 *	51.3	257.1	19,900				155
160	44.4	246.7	17,700 *	49.1	252.9	19,000				160
165	41.9	241.3	16,800 *	46.9	248.4	18,200	51.3	252.7	16,400	165
170	39.3	235.5	16,000 *	44.5	243.5	17,400	49.1	248.6	15,700	170
175	36.6	229.1	15,100 *	42.0	238.2	16,600	46.8	244.0	15,000	175
180	33.6	221.9	14,300 *	39.5	232.4	15,900	44.5	239.2	14,400	180
185	30.4	214.0	13,500 *	36.7	226.0	15,200 *	42.0	233.8	13,700	185
190	26.9	204.8	12,500 *	33.8	219.0	14,400 *	39.4	228.0	13,100	190
195	22.9	194.1	11,600 *	30.7	211.0	13,600 *	36.7	221.7	12,600	195
200	18.1	180.7	10,800 *	27.2	202.0	12,600 *	33.8	214.6	12,100	200
205	11.5	161.8	10,100 *	23.2	191.4	11,700 *	30.6	206.6	11,600	205
210				18.5	178.2	10,900 *	27.1	197.6	11,100	210
215				12.1	159.9	10,200 *	23.2	186.9	10,600	215
220							18.4	173.8	10,200	220
225							12.0	155.4	9,700	225

14000 S-2

ANSI B30.5



134.5 ft



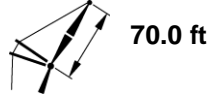
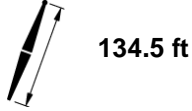
70.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
32			98,000 *d							32
34			98,000 *d							34
36			98,000 *c							36
38			98,000 *c							38
40			98,000 *c							40
45			98,000 *b							45
50			93,300 *b	67.0	205.6	99,700 *c				50
55			86,600 *b	62.5	203.3	92,300 *b				55
60			80,600 *	57.7	200.4	85,700 *b	64.2	203.1	84,100 c	60
65			75,200 *	52.7	196.9	79,200 b	59.6	200.4	76,100 b	65
70			70,300 *	47.4	192.7	72,200	54.7	197.2	69,400 b	70
75			65,800 *	41.6	187.7	66,300	49.5	193.3	63,700	75
80			58,200 *	34.9	181.3	61,200	43.9	188.6	58,800	80
85				27.0	173.0	56,700	37.6	182.8	54,500	85
90				15.7	160.2	52,700	30.3	175.4	50,800	90
95							20.8	164.9	47,400	95
100										100
105										105
110										110
115										115
120										120
125										125
130										130



ANSI B30.5

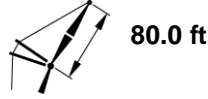
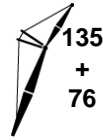
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	lb	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	60.9	198.5	59,400 b						75	
80	56.1	195.4	54,800 b						80	
85	51.0	191.8	50,800 b						85	
90	45.6	187.3	47,300	57.2	192.5	43,900 b			90	
95	39.5	181.9	44,300	52.2	188.9	41,100 b			95	
100	32.5	175.0	41,500	46.8	184.7	38,500			100	
105	23.9	165.7	39,000	40.9	179.5	36,200			105	
110	9.6	149.0	36,600	34.2	173.0	34,100	47.7	180.7	31,500	110
115				26.1	164.4	32,200	41.9	175.7	29,700	115
120				14.1	150.7	30,400	35.3	169.4	28,100	120
125							27.5	161.2	26,600	125
130							16.5	148.8	25,200	130

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	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	90,500 *c			50	
55	58.6	210.5	82,200 *b	66.1	214.4	88,700 *b			55	
60	54.3	207.1	78,200 *	62.1	211.9	82,700 *b	67.6	214.1	83,700 c	60
65	49.7	203.2	73,200 *	58.0	209.1	77,200 *b	63.7	211.8	75,700 b	65
70	44.9	198.6	68,600 *	53.7	205.7	71,900	59.6	209.1	69,000 b	70
75	39.5	193.1	64,500 *	49.1	201.7	66,000	55.4	205.9	63,400	75
80	33.5	186.3	60,700 *	44.2	197.0	60,900	50.9	202.2	58,500	80
85	26.3	177.6	57,100 *	38.8	191.3	56,500	46.1	197.7	54,200	85
90	16.5	164.9	50,300 *	32.6	184.4	52,600	40.9	192.5	50,500	90
95				25.2	175.3	49,200	35.1	186.1	47,200	95
100				14.7	161.5	46,100	28.3	178.0	44,300	100
105							19.5	166.7	41,600	105
110										110
115										115
120										120
125										125
130										130
135										135
140										140

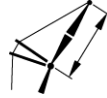


ANSI B30.5

14000 S-2



134.5 ft

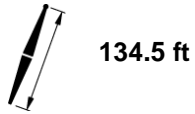


80.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	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	54,400 b							80
85	56.6	204.1	50,500							85
90	52.2	200.6	47,000							90
95	47.5	196.3	43,900	57.6	201.1	40,600 b				95
100	42.5	191.3	41,200	53.2	197.7	38,100				100
105	36.9	185.3	38,700	48.6	193.6	35,800				105
110	30.4	177.8	36,500	43.7	188.8	33,700				110
115	22.3	167.7	34,400	38.2	183.1	31,900	49.4	189.6	29,300	115
120	9.0	149.9	32,500	31.9	175.9	30,100	44.4	185.0	27,700	120
125				24.4	166.6	28,500	39.1	179.4	26,300	125
130				13.2	151.9	27,000	33.0	172.5	24,900	130
135							25.7	163.6	23,700	135
140							15.4	150.2	22,500	140

14000 S-2

ANSI B30.5

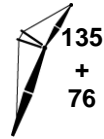


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38	74.1	228.7	81,500 *c							38
40	72.7	228.1	81,400 *c							40
45	69.4	226.4	80,500 *c							45
50	65.9	224.4	77,200 *b							50
55	62.4	221.9	74,100 *b	68.9	225.2	80,500 *b				55
60	58.7	219.1	71,300 *	65.5	223.1	77,400 *b				60
65	54.9	215.9	68,600 *	61.9	220.6	74,500 *b	66.8	222.8	75,500 b	65
70	50.9	212.1	66,200 *	58.2	217.7	70,800 *	63.3	220.5	68,800 b	70
75	46.7	207.7	63,600 *	54.4	214.4	65,800	59.7	217.8	63,200	75
80	42.2	202.6	60,100 *	50.4	210.6	60,800	55.9	214.6	58,300	80
85	37.2	196.6	56,700 *	46.1	206.1	56,400	52.0	211.0	54,100	85
90	31.5	189.3	53,500 *	41.5	200.9	52,500	47.8	206.8	50,300	90
95	24.8	179.9	49,700 *	36.5	194.7	49,100	43.4	201.9	47,100	95
100	15.5	166.3	44,700 *	30.7	187.2	46,000	38.5	196.1	44,100	100
105				23.8	177.5	43,300	33.1	189.2	41,500	105
110				13.9	162.8	40,800	26.7	180.4	39,100	110
115							18.3	168.4	36,900	115
120										120
125										125
130										130
135										135
140										140
145										145
150										150

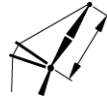


ANSI B30.5

14000 S-2



134.5 ft

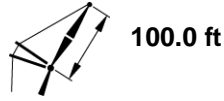
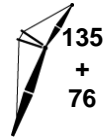


90.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	50,200 b							85
90	57.0	212.8	46,800							90
95	53.1	209.3	43,700							95
100	49.0	205.3	41,000	57.9	209.8	37,800				100
105	44.7	200.6	38,500	54.0	206.4	35,600				105
110	39.9	195.1	36,300	50.0	202.5	33,500				110
115	34.7	188.5	34,300	45.7	198.0	31,600				115
120	28.6	180.4	32,500	41.0	192.7	29,900	50.6	198.5	27,500	120
125	21.0	169.6	30,800	35.9	186.4	28,400	46.4	194.1	26,000	125
130	8.5	150.6	29,100	30.1	178.7	26,900	41.8	188.9	24,700	130
135				22.9	168.7	25,600	36.7	182.8	23,500	135
140				12.5	153.0	24,300	31.0	175.4	22,300	140
145							24.2	165.8	21,300	145
150							14.5	151.6	20,200	150

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ANSI B30.5

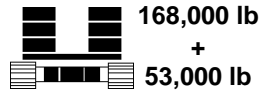
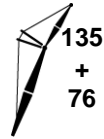


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40										40
45										45
50										50
55										55
60										60
65				68.1	234.0	72,100 *b				65
70				64.9	231.8	69,200 *b	66.2	231.5	68,400 b	70
75				61.7	229.3	66,500 *	63.0	229.1	62,800	75
80				58.4	226.4	63,800 *	59.7	226.4	57,900	80
85				55.0	223.1	60,500	56.3	223.3	53,700	85
90				51.4	219.4	56,100				90
95				47.6	215.1	52,200	52.8	219.7	50,000	95
100				43.6	210.2	48,800	49.1	215.7	46,700	100
105				39.3	204.6	45,800	45.2	211.1	43,800	105
110				34.5	197.9	43,100	41.0	205.7	41,200	110
115				29.1	189.9	40,600	36.5	199.5	38,900	115
120				22.5	179.5	38,300	31.3	192.0	36,700	120
125				13.2	164.0	36,300	25.3	182.8	34,700	125
130							17.4	169.9	32,900	130
135										135
140										140
145										145
150										150
155										155
160										160

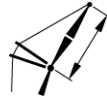


ANSI B30.5

14000 S-2



134.5 ft

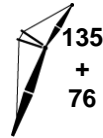


100.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	46,400							90
95	57.3	221.5	43,300							95
100	53.8	218.1	40,600							100
105	50.2	214.2	38,200							105
110	46.4	209.7	36,000	54.6	215.2	33,100				110
115	42.3	204.6	34,000	51.0	211.4	31,200				115
120	37.8	198.6	32,100	47.2	207.1	29,600				120
125	32.8	191.6	30,500	43.2	202.1	28,000	51.6	207.3	25,600	125
130	27.1	182.9	28,900	38.8	196.3	26,600	47.8	203.1	24,300	130
135	19.9	171.4	27,500	34.0	189.6	25,300	43.9	198.2	23,100	135
140	8.1	151.3	26,100	28.5	181.3	24,100	39.5	192.6	22,000	140
145				21.7	170.7	22,900	34.8	186.0	20,900	145
150				11.8	154.1	21,800	29.4	178.1	19,900	150
155							22.9	167.9	19,000	155
160							13.8	152.8	18,100	160

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134.5 ft



110.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	66,900 *b				60
65	62.0	239.3	60,400 *	67.3	242.7	64,800 *b				65
70	59.0	236.4	58,300 *	64.5	240.5	62,600 *				70
75	55.9	233.2	56,400 *	61.6	237.9	60,600 *	65.6	240.2	62,700	75
80	52.7	229.6	54,300 *	58.6	235.1	58,700 *	62.7	237.8	57,900	80
85	49.3	225.6	52,400 *	55.5	231.8	56,000	59.7	235.1	53,700	85
90	45.8	221.0	50,600 *	52.2	228.2	52,200	56.7	232.0	50,000	90
95	42.0	215.8	48,900 *	48.9	224.1	48,800	53.5	228.5	46,700	95
100	38.0	209.9	46,800 *	45.3	219.4	45,800	50.2	224.6	43,800	100
105	33.5	202.9	43,600 *	41.5	214.1	43,100	46.7	220.1	41,200	105
110	28.4	194.6	40,700 *	37.4	208.0	40,600	43.0	215.1	38,800	110
115	22.4	184.1	38,000 *	32.9	200.9	38,400	39.0	209.4	36,700	115
120	14.0	168.9	34,900 *	27.7	192.4	36,300	34.7	202.7	34,800	120
125				21.5	181.5	34,500	29.8	194.8	33,000	125
130				12.5	165.1	32,700	24.1	184.9	31,300	130
135							16.6	171.4	29,800	135
140										140
145										145
150										150
155										155
160										160
165										165
170										170



ANSI B30.5

14000 S-2



134.5 ft



110.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	43,200							95
100	57.6	230.2	40,500							100
105	54.4	226.8	38,100							105
110	51.1	223.0	35,900							110
115	47.7	218.7	33,900	55.1	223.9	31,200				115
120	44.1	213.9	32,100	51.9	220.2	29,500				120
125	40.2	208.3	30,500	48.5	216.0	28,000				125
130	36.0	202.0	28,900	44.9	211.3	26,600	52.4	216.1	24,300	130
135	31.3	194.4	27,500	41.1	205.9	25,300	49.0	212.0	23,000	135
140	25.8	185.2	26,200	37.0	199.8	24,100	45.5	207.4	21,900	140
145	19.0	173.1	25,000	32.4	192.6	22,900	41.7	202.1	20,900	145
150	7.7	152.0	23,800	27.1	183.8	21,900	37.6	196.1	19,900	150
155				20.7	172.5	20,900	33.1	189.1	19,000	155
160				11.3	155.1	19,900	28.0	180.6	18,200	160
165							21.8	169.8	17,400	165
170							13.2	154.0	16,600	170

14000 S-2

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134.5 ft



120.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	48,700 *	67.8	251.1	49,600 *	75
80	56.2	241.9	45,800 *	61.4	246.6	48,000 *	65.2	248.9	48,900 *	80
85	53.3	238.4	44,600 *	58.7	243.7	47,300 *	62.5	246.5	48,300 *	85
90	50.3	234.5	43,000 *	55.8	240.5	46,500 *	59.8	243.7	47,700 *	90
95	47.1	230.1	41,400 *	52.9	236.9	44,700 *	57.0	240.7	46,400	95
100	43.7	225.1	39,900 *	49.8	232.9	43,100 *	54.1	237.2	43,500	100
105	40.2	219.6	38,500 *	46.6	228.5	41,600 *	51.1	233.4	40,900	105
110	36.3	213.2	37,200 *	43.3	223.5	40,100 *	47.9	229.1	38,500	110
115	32.0	205.9	36,100 *	39.7	217.8	38,100	44.6	224.3	36,400	115
120	27.2	197.1	35,000 *	35.8	211.4	36,100	41.1	218.9	34,500	120
125	21.4	186.0	33,700 *	31.4	203.8	34,200	37.3	212.8	32,700	125
130	13.4	170.1	31,100 *	26.5	194.8	32,500	33.2	205.7	31,100	130
135				20.5	183.3	31,000	28.5	197.4	29,600	135
140				12.0	166.2	29,500	23.0	187.0	28,200	140
145							15.9	172.9	26,800	145
150										150
155										155
160										160
165										165
170										170
175										175
180										180

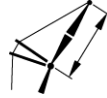


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14000 S-2



134.5 ft



120.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	40,100							100
105	57.8	238.8	37,700							105
110	54.9	235.5	35,500							110
115	51.9	231.8	33,600							115
120	48.8	227.6	31,800	55.6	232.6	29,100				120
125	45.6	223.0	30,100	52.6	228.9	27,600				125
130	42.1	217.8	28,600	49.5	224.9	26,200				130
135	38.4	211.9	27,200	46.3	220.4	24,900				135
140	34.4	205.1	25,900	42.9	215.3	23,700	50.0	220.9	21,500	140
145	29.9	197.2	24,700	39.3	209.6	22,600	46.8	216.4	20,500	145
150	24.7	187.5	23,600	35.3	203.0	21,500	43.5	211.5	19,500	150
155	18.2	174.8	22,500	31.0	195.4	20,600	39.9	205.9	18,600	155
160	7.3	152.7	21,500	26.0	186.2	19,600	36.0	199.4	17,800	160
165				19.8	174.3	18,800	31.7	192.0	17,000	165
170				10.8	156.1	17,900	26.8	183.0	16,300	170
175							20.9	171.7	15,500	175
180							12.6	155.1	14,800	180

14000 S-2

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	87°			83°			80°			
	ft	ft	lb	ft	lb	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	45,200 *	67.2	259.9	45,800 *	80
85	56.5	250.6	41,200 *	61.3	255.3	44,400 *	64.8	257.6	45,300 *	85
90	53.8	247.1	39,700 *	58.8	252.4	42,800 *	62.3	255.2	44,800 *	90
95	51.1	243.3	38,200 *	56.2	249.2	41,300 *	59.8	252.4	43,500 *	95
100	48.2	239.1	36,800 *	53.5	245.7	39,700 *	57.2	249.3	41,900 *	100
105	45.1	234.3	35,500 *	50.7	241.8	38,300 *	54.5	245.9	40,400 *	105
110	41.9	229.1	34,200 *	47.8	237.5	36,900 *	51.8	242.2	38,300 *	110
115	38.5	223.1	33,000 *	44.7	232.7	35,600 *	48.9	238.1	36,200 *	115
120	34.8	216.4	31,900 *	41.5	227.4	34,300 *	45.9	233.5	34,300 *	120
125	30.8	208.7	30,800 *	38.0	221.3	33,100 *	42.8	228.3	32,500 *	125
130	26.1	199.4	29,900 *	34.3	214.5	32,000 *	39.4	222.6	30,900 *	130
135	20.6	187.9	29,200 *	30.2	206.6	30,800 *	35.8	216.1	29,400 *	135
140	12.9	171.2	27,700 *	25.5	197.1	29,400 *	31.8	208.7	28,000 *	140
145				19.7	185.1	28,000 *	27.4	199.9	26,700 *	145
150				11.5	167.2	26,700 *	22.1	189.0	25,500 *	150
155							15.2	174.2	24,300 *	155
160										160
165										165
170										170
175										175
180										180
185										185
190										190



ANSI B30.5

14000 S-2



134.5 ft

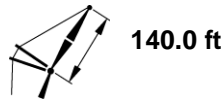


130.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	37,500							105
110	57.9	247.5	35,300							110
115	55.3	244.2	33,300							115
120	52.6	240.6	31,500							120
125	49.7	236.5	29,900	55.9	241.3	27,300				125
130	46.8	232.1	28,400	53.2	237.7	25,900				130
135	43.7	227.1	27,000	50.4	233.8	24,600				135
140	40.4	221.6	25,700	47.5	229.4	23,400				140
145	36.9	215.3	24,500	44.4	224.6	22,300	50.8	229.7	20,200	145
150	33.0	208.2	23,400	41.2	219.2	21,300	47.9	225.4	19,300	150
155	28.7	199.8	22,300	37.7	213.1	20,300	44.9	220.7	18,400	155
160	23.7	189.6	21,400	33.9	206.1	19,400	41.7	215.4	17,600	160
165	17.5	176.3	20,400	29.7	198.1	18,600	38.2	209.4	16,800	165
170	7.1	153.3	19,500	24.9	188.4	17,800	34.5	202.6	16,000	170
175				19.0	176.0	17,000	30.4	194.7	15,300	175
180				10.4	157.0	16,300	25.7	185.4	14,700	180
185							20.1	173.5	14,000	185
190							12.1	156.2	13,400	190

14000 S-2

ANSI B30.5

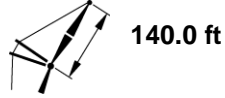
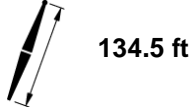


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	74.8	277.3	45,000 *b							50
55	72.7	275.8	44,200 *b							55
60	70.5	274.2	43,400 *							60
65	68.3	272.3	42,700 *							65
70	66.1	270.2	42,000 *	70.2	273.0	43,400 *				70
75	63.8	267.9	40,700 *	68.0	271.0	42,800 *				75
80	61.5	265.3	39,100 *	65.8	268.9	42,200 *				80
85	59.2	262.4	37,600 *	63.5	266.6	40,600 *	66.7	268.6	42,200 *	85
90	56.8	259.3	36,100 *	61.2	263.9	39,100 *	64.4	266.4	41,200 *	90
95	54.3	255.9	34,700 *	58.9	261.1	37,700 *	62.1	263.8	39,700 *	95
100	51.7	252.1	33,300 *	56.4	257.9	36,200 *	59.8	261.1	38,200 *	100
105	49.1	248.0	32,000 *	54.0	254.4	34,800 *	57.4	258.0	36,800 *	105
110	46.3	243.4	30,700 *	51.4	250.6	33,500 *	54.9	254.7	35,400 *	110
115	43.4	238.4	29,500 *	48.7	246.4	32,100 *	52.4	251.0	34,100 *	115
120	40.3	232.8	28,400 *	45.9	241.8	30,800 *	49.8	246.9	32,700 *	120
125	37.1	226.6	27,300 *	43.0	236.7	29,600 *	47.0	242.5	31,500 *	125
130	33.5	219.5	26,300 *	39.9	231.1	28,500 *	44.2	237.6	30,200 *	130
135	29.6	211.4	25,300 *	36.6	224.7	27,400 *	41.1	232.2	29,100 *	135
140	25.2	201.7	24,500 *	33.0	217.5	26,400 *	37.9	226.1	27,700 *	140
145	19.8	189.6	23,700 *	29.1	209.2	25,400 *	34.5	219.3	26,400 *	145
150	12.4	172.3	23,100 *	24.5	199.3	24,500 *	30.7	211.5	25,200 *	150
155				19.0	186.8	23,800 *	26.4	202.2	24,100 *	155
160				11.1	168.2	23,200 *	21.3	190.9	23,000 *	160
165							14.7	175.6	22,000 *	165
170										170
175										175
180										180
185										185
190										190
195										195
200										200



ANSI B30.5

14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	37,100							105
110	60.5	259.1	34,900							110
115	58.1	256.2	32,900							115
120	55.6	252.9	31,200							120
125	53.1	249.3	29,500							125
130	50.5	245.4	28,000	56.2	249.9	25,500				130
135	47.8	241.1	26,600	53.7	246.4	24,200				135
140	45.0	236.3	25,400	51.1	242.6	23,100				140
145	42.0	231.0	24,200	48.4	238.4	22,000				145
150	38.9	225.2	23,100	45.6	233.7	20,900	51.5	238.5	18,900	150
155	35.5	218.6	22,000	42.7	228.6	20,000	48.9	234.4	18,000	155
160	31.8	211.1	21,100	39.6	222.8	19,100	46.1	229.8	17,200	160
165	27.6	202.3	20,100	36.3	216.4	18,200	43.2	224.7	16,400	165
170	22.8	191.7	19,300	32.6	209.1	17,500	40.1	219.1	15,700	170
175	16.8	177.8	18,500	28.6	200.7	16,700	36.8	212.8	15,000	175
180	6.8	153.9	17,600	24.0	190.6	16,000	33.2	205.6	14,300	180
185				18.3	177.7	15,300	29.3	197.4	13,700	185
190				10.0	157.9	14,600	24.8	187.6	13,100	190
195							19.3	175.3	12,600	195
200							11.7	157.2	12,000	200

14000 S-2

ANSI B30.5



134.5 ft



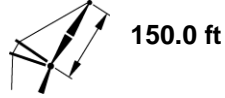
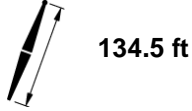
150.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	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	37,800 *	90
95	57.0	268.0	31,800 *	61.2	272.6	34,600 *	64.1	275.0	36,400 *	95
100	54.7	264.6	30,500 *	58.9	269.7	33,200 *	62.0	272.5	35,100 *	100
105	52.3	260.9	29,200 *	56.7	266.6	31,800 *	59.8	269.7	33,700 *	105
110	49.9	256.9	28,000 *	54.4	263.1	30,500 *	57.6	266.7	32,300 *	110
115	47.3	252.4	26,800 *	52.0	259.4	29,300 *	55.3	263.4	31,100 *	115
120	44.6	247.6	25,600 *	49.5	255.3	28,000 *	52.9	259.7	29,800 *	120
125	41.9	242.3	24,500 *	47.0	250.9	26,800 *	50.5	255.8	28,500 *	125
130	38.9	236.4	23,500 *	44.3	246.0	25,700 *	48.0	251.5	27,400 *	130
135	35.8	229.9	22,600 *	41.5	240.6	24,600 *	45.3	246.8	26,200 *	135
140	32.4	222.5	21,600 *	38.5	234.6	23,500 *	42.6	241.6	25,100 *	140
145	28.6	214.0	20,800 *	35.3	228.0	22,600 *	39.7	235.9	24,100 *	145
150	24.3	203.9	19,900 *	31.9	220.4	21,700 *	36.6	229.5	23,100 *	150
155	19.1	191.4	19,200 *	28.1	211.8	20,800 *	33.3	222.3	22,100 *	155
160	12.0	173.4	18,700 *	23.7	201.4	20,000 *	29.6	214.1	21,200 *	160
165				18.3	188.4	19,300 *	25.5	204.6	20,400 *	165
170				10.7	169.1	18,700 *	20.6	192.8	19,600 *	170
175							14.2	176.8	19,000 *	175
180										180
185										185
190										190
195										195
200										200
205										205
210										210



ANSI B30.5

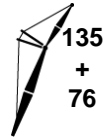
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	34,800							110
115	60.4	267.8	32,800							115
120	58.2	264.8	31,000							120
125	55.9	261.6	29,400							125
130	53.6	258.1	27,900							130
135	51.2	254.2	26,500	56.5	258.6	24,100				135
140	48.7	250.0	25,300	54.1	255.2	22,900				140
145	46.1	245.4	24,100	51.7	251.4	21,900				145
150	43.4	240.4	23,000	49.3	247.3	20,800				150
155	40.5	234.8	21,900	46.7	242.8	19,900	52.1	247.3	17,900	155
160	37.5	228.6	21,000	44.0	237.8	19,000	49.7	243.3	17,100	160
165	34.2	221.7	20,100	41.2	232.4	18,200	47.1	238.8	16,300	165
170	30.7	213.9	19,200	38.2	226.4	17,400	44.4	233.9	15,600	170
175	26.7	204.7	18,400	35.0	219.6	16,600	41.6	228.6	14,900	175
180	22.1	193.7	17,700	31.5	212.0	15,900	38.7	222.7	14,200	180
185	16.2	179.3	16,900	27.6	203.2	15,300	35.5	216.1	13,600	185
190	6.6	154.5	16,200	23.2	192.7	14,600	32.1	208.6	13,100	190
195				17.7	179.3	14,000	28.3	200.0	12,500	195
200				9.6	158.7	13,400	23.9	189.8	12,000	200
205							18.7	176.9	11,500	205
210							11.3	158.2	11,000	210

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	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	33,100 *	95
100	57.2	276.7	27,500 *	61.1	281.3	30,000 *	63.9	283.7	31,800 *	100
105	55.0	273.3	26,200 *	59.0	278.4	28,700 *	61.9	281.2	30,500 *	105
110	52.8	269.7	25,000 *	56.9	275.3	27,400 *	59.8	278.4	29,200 *	110
115	50.5	265.7	23,800 *	54.7	271.9	26,200 *	57.7	275.4	27,900 *	115
120	48.2	261.4	22,700 *	52.5	268.2	25,000 *	55.6	272.1	26,700 *	120
125	45.7	256.7	21,600 *	50.2	264.2	23,800 *	53.4	268.5	25,500 *	125
130	43.2	251.6	20,600 *	47.8	259.8	22,700 *	51.1	264.6	24,300 *	130
135	40.5	246.1	19,600 *	45.4	255.1	21,700 *	48.8	260.4	23,200 *	135
140	37.6	239.9	18,700 *	42.8	249.9	20,600 *	46.4	255.9	22,100 *	140
145	34.6	233.0	17,800 *	40.1	244.3	19,600 *	43.8	250.9	21,100 *	145
150	31.3	225.3	16,900 *	37.2	238.1	18,700 *	41.2	245.4	20,100 *	150
155	27.7	216.5	16,200 *	34.2	231.1	17,800 *	38.4	239.4	19,200 *	155
160	23.5	206.0	15,500 *	30.8	223.2	17,000 *	35.4	232.7	18,200 *	160
165	18.5	193.0	14,800 *	27.1	214.2	16,300 *	32.2	225.3	17,400 *	165
170	11.6	174.4	14,200 *	22.9	203.5	15,500 *	28.6	216.7	16,500 *	170
175				17.8	190.0	14,800 *	24.6	206.8	15,800 *	175
180				10.4	170.1	14,100 *	19.9	194.6	15,200 *	180
185							13.7	178.0	14,500 *	185
190										190
195										195
200										200
205										205
210										210
215										215
220										220



ANSI B30.5

14000 S-2



134.5 ft

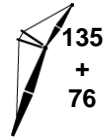


160.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	30,500 *							115
120	60.4	276.5	29,300 *							120
125	58.3	273.5	28,100 *							125
130	56.2	270.3	27,000 *							130
135	54.0	266.8	25,800 *							135
140	51.8	263.0	24,700 *	56.7	267.3	22,600				140
145	49.5	258.9	23,500 *	54.5	263.9	21,500				145
150	47.1	254.4	22,500 *	52.3	260.2	20,500				150
155	44.6	249.6	21,400 *	50.0	256.1	19,500				155
160	41.9	244.3	20,400 *	47.6	251.8	18,600	52.6	256.1	16,700	160
165	39.2	238.4	19,500 *	45.1	247.0	17,800	50.3	252.1	15,900	165
170	36.3	232.0	18,600 *	42.5	241.8	17,000	48.0	247.8	15,200	170
175	33.1	224.7	17,700 *	39.8	236.1	16,300	45.5	243.1	14,500	175
180	29.7	216.6	16,900 *	36.9	229.8	15,600	42.9	238.0	13,900	180
185	25.8	207.1	16,100 *	33.8	222.7	14,900	40.3	232.3	13,300	185
190	21.4	195.6	15,400 *	30.5	214.8	14,300	37.4	226.1	12,700	190
195	15.7	180.7	14,800 *	26.7	205.6	13,700	34.3	219.2	12,100	195
200	6.4	155.1	14,000 *	22.4	194.7	13,200	31.0	211.4	11,600	200
205				17.2	180.8	12,600	27.3	202.4	11,100	205
210				9.3	159.6	12,100	23.2	191.9	10,700	210
215							18.1	178.6	10,200	215
220							10.9	159.2	9,700	220

14000 S-2

ANSI B30.5



134.5 ft



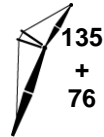
170.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	27,900 *	105
110	55.3	282.0	22,700 *	59.1	287.0	25,000 *	61.8	289.8	26,600 *	110
115	53.2	278.4	21,600 *	57.1	283.9	23,800 *	59.8	287.0	25,500 *	115
120	51.1	274.5	20,500 *	55.1	280.6	22,600 *	57.9	284.0	24,300 *	120
125	48.9	270.3	19,400 *	53.0	276.9	21,500 *	55.9	280.7	23,100 *	125
130	46.6	265.8	18,400 *	50.8	273.0	20,400 *	53.8	277.2	22,000 *	130
135	44.3	260.9	17,500 *	48.6	268.8	19,400 *	51.7	273.4	20,900 *	135
140	41.8	255.5	16,600 *	46.3	264.2	18,500 *	49.5	269.3	19,900 *	140
145	39.2	249.7	15,700 *	44.0	259.2	17,500 *	47.2	264.9	18,900 *	145
150	36.5	243.2	14,900 *	41.5	253.8	16,600 *	44.9	260.0	17,900 *	150
155	33.5	236.1	14,100 *	38.9	247.9	15,700 *	42.5	254.8	17,000 *	155
160	30.3	228.1	13,300 *	36.1	241.4	14,900 *	39.9	249.1	16,100 *	160
165	26.8	218.9	12,300 *	33.1	234.1	14,100 *	37.2	242.8	15,300 *	165
170	22.8	208.1	11,500 *	29.9	226.0	13,200 *	34.3	235.9	14,500 *	170
175	18.0	194.6	10,700 *	26.3	216.6	12,300 *	31.2	228.1	13,600 *	175
180	11.3	175.4	10,000 *	22.2	205.5	11,400 *	27.8	219.3	12,700 *	180
185				17.2	191.6	10,700 *	23.9	208.9	11,800 *	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
215										215
220										220
225										225
230										230

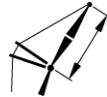


ANSI B30.5

14000 S-2



134.5 ft

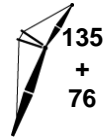


170.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	62.3	287.9	26,700 *							120
125	60.4	285.1	25,600 *							125
130	58.4	282.2	24,400 *							130
135	56.4	279.0	23,400 *							135
140	54.4	275.5	22,300 *							140
145	52.3	271.8	21,200 *	56.9	276.0	21,200				145
150	50.1	267.8	20,200 *	54.8	272.6	20,200				150
155	47.9	263.4	19,200 *	52.8	269.0	19,200				155
160	45.6	258.7	18,200 *	50.6	265.0	18,400				160
165	43.2	253.6	17,300 *	48.4	260.7	17,500				165
170	40.6	248.0	16,400 *	46.1	256.1	16,800	50.9	261.0	14,900	170
175	38.0	241.9	15,600 *	43.7	251.1	16,000	48.7	256.7	14,200	175
180	35.1	235.2	14,800 *	41.2	245.6	15,300	46.5	252.2	13,600	180
185	32.1	227.7	14,000 *	38.6	239.6	14,700	44.1	247.2	13,000	185
190	28.8	219.1	13,000 *	35.8	233.1	14,100	41.6	241.8	12,400	190
195	25.0	209.3	12,100 *	32.8	225.7	13,500	39.0	235.9	11,900	195
200	20.7	197.4	11,200 *	29.6	217.5	12,900	36.2	229.4	11,400	200
205	15.2	182.1	10,500 *	25.9	208.0	12,400 *	33.3	222.2	10,900	205
210	6.2	155.6	9,800 *	21.8	196.6	11,500 *	30.1	214.1	10,400	210
215				16.6	182.3	10,700 *	26.5	204.9	10,000	215
220				9.1	160.4	10,000 *	22.5	193.9	9,600	220
225							17.5	180.1	9,100	225
230							10.6	160.1	8,700	230

14000 S-2

ANSI B30.5



144.4 ft



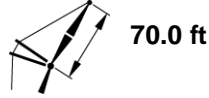
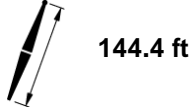
70.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	92,600 *c				50
55	53.9	208.6	80,100 *b	63.6	213.7	85,800 *b				55
60	48.7	204.6	74,700 *	58.9	210.9	79,700 *b	65.8	213.6	83,300 c	60
65	43.0	199.8	69,800 *	54.0	207.6	74,300 *b	61.2	211.1	75,300 b	65
70	36.6	193.8	65,400 *	48.7	203.6	69,300 *	56.4	208.1	68,700 b	70
75	29.0	186.0	61,300 *	43.0	198.7	64,900 *	51.3	204.4	63,000 b	75
80	19.0	174.8	57,200 *	36.6	192.7	60,800	45.9	200.0	58,200	80
85				29.1	185.0	56,300	39.9	194.6	54,000	85
90				19.0	173.8	52,400	33.0	187.9	50,300	90
95							24.5	178.7	46,900	95
100							11.0	163.1	43,900	100
105										105
110										110
115										115
120										120
125										125
130										130
135										135



ANSI B30.5

14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	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										75
80	58.6	206.6	53,900 b							80
85	53.7	203.2	50,000 b							85
90	48.4	199.2	46,600							90
95	42.7	194.3	43,500	55.6	200.6	40,100 b				95
100	36.2	188.2	40,800	50.5	196.9	37,600 b				100
105	28.6	180.3	38,300	45.0	192.4	35,300				105
110	18.3	168.8	36,100	38.9	186.8	33,300	52.1	193.1	30,500 b	110
115				31.8	179.7	31,400	46.8	188.9	28,700	115
120				22.8	170.0	29,700	40.8	183.6	27,200	120
125				6.7	151.1	28,000	34.1	177.1	25,800	125
130							25.9	168.5	24,400	130
135							13.9	154.7	23,100	135

14000 S-2

ANSI B30.5



144.4 ft



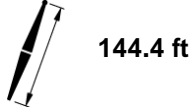
80.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	87,500 *c				50
55	59.0	220.6	77,300 *b	67.1	224.7	82,400 *b				55
60	54.7	217.3	72,400 *	63.1	222.3	76,800 *b				60
65	50.2	213.5	67,800 *	59.0	219.6	71,800 *b	65.1	222.3	74,800 *b	65
70	45.4	209.0	63,700 *	54.7	216.3	67,300 *	61.1	219.8	68,300 b	70
75	40.1	203.6	59,900 *	50.2	212.5	63,200 *	56.9	216.7	62,700 b	75
80	34.2	196.9	56,500 *	45.4	207.9	59,400 *	52.5	213.2	57,900	80
85	27.1	188.5	53,300 *	40.1	202.5	56,000 *	47.8	209.0	53,700	85
90	17.7	176.4	49,300 *	34.2	195.9	52,300	42.8	204.1	50,000	90
95				27.2	187.5	48,800	37.2	198.1	46,700	95
100				17.8	175.4	45,700	30.8	190.7	43,800	100
105							22.9	180.8	41,200	105
110							10.3	164.0	38,700	110
115										115
120										120
125										125
130										130
135										135
140										140
145										145



ANSI B30.5

14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	lb	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	53,500 b						80	
85	58.8	215.2	49,600 b						85	
90	54.5	212.0	46,200						90	
95	50.0	208.1	43,200						95	
100	45.1	203.5	40,500	56.2	209.3	37,100			100	
105	39.8	198.0	38,000	51.8	205.7	34,900			105	
110	33.8	191.4	35,800	47.0	201.4	32,900			110	
115	26.7	182.8	33,800	41.9	196.3	31,100			115	
120	17.1	170.4	32,000	36.3	190.2	29,400	48.6	197.8	26,800	120
125				29.7	182.5	27,800	43.6	193.0	25,400	125
130				21.3	172.0	26,400	38.1	187.2	24,100	130
135				6.3	151.7	25,000	31.8	180.1	22,800	135
140							24.2	170.7	21,700	140
145							13.0	155.8	20,600	145

14000 S-2

ANSI B30.5



144.4 ft



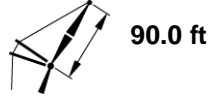
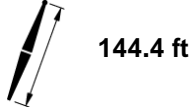
90.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38										38
40										40
45										45
50										50
55										55
60				69.7	235.4	79,600 *c				60
65				66.3	233.4	74,900 *b	68.0	233.2	72,800 *b	65
70				62.8	231.0	70,200 *b	64.5	231.0	68,100 b	70
75				59.1	228.2	66,000 *	60.9	228.4	62,500 b	75
80				55.3	225.0	62,100 *	57.2	225.4	57,700	80
85				51.4	221.3	58,500 *				85
90				47.2	217.0	55,300 *	53.4	222.0	53,500	90
95				42.7	212.0	52,100	49.3	218.0	49,800	95
100				37.7	206.1	48,700	44.9	213.3	46,600	100
105				32.2	198.9	45,700	40.2	207.9	43,700	105
110				25.6	189.9	43,000	35.0	201.4	41,100	110
115				16.8	176.9	40,500	29.0	193.4	38,700	115
120							21.5	182.8	36,500	120
125							9.7	164.9	34,500	125
130										130
135										135
140										140
145										145
150										150
155										155



ANSI B30.5

14000 S-2



	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	49,300 b						85	
90	58.9	223.9	45,900						90	
95	55.1	220.7	42,900						95	
100	51.1	216.9	40,200						100	
105	46.9	212.6	37,800	56.6	218.0	34,700			105	
110	42.4	207.5	35,700	52.7	214.5	32,700			110	
115	37.4	201.5	33,700	48.6	210.4	30,800			115	
120	31.8	194.3	31,900	44.2	205.6	29,200			120	
125	25.2	185.1	30,200	39.4	200.0	27,600	49.9	206.7	25,100	125
130	16.1	171.8	28,700	34.1	193.3	26,200	45.6	202.2	23,800	130
135				27.9	185.0	24,900	41.0	196.9	22,600	135
140				20.1	173.8	23,700	35.8	190.6	21,500	140
145				6.0	152.2	22,500	30.0	182.8	20,500	145
150							22.8	172.8	19,500	150
155							12.2	156.9	18,600	155

14000 S-2

ANSI B30.5



144.4 ft



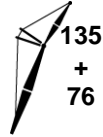
100.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	72,000 *b				60
65	59.2	237.9	63,400 *	65.7	242.1	68,200 *b				65
70	55.8	234.7	61,000 *	62.5	239.7	64,300 *	67.2	242.0	66,300 *b	70
75	52.3	231.1	57,800 *	59.2	236.9	60,600 *	64.1	239.7	62,100 b	75
80	48.5	227.0	54,700 *	55.8	233.7	57,300 *	60.8	237.1	57,300	80
85	44.6	222.2	51,900 *	52.3	230.1	54,200 *	57.5	234.1	53,100	85
90	40.4	216.8	49,200 *	48.6	226.0	51,300 *	54.0	230.7	49,500	90
95	35.7	210.4	46,800 *	44.6	221.2	48,500	50.4	226.8	46,200	95
100	30.5	202.7	44,500 *	40.4	215.8	45,400	46.6	222.4	43,300	100
105	24.2	193.0	42,400 *	35.7	209.4	42,700	42.5	217.3	40,800	105
110	15.8	179.3	38,800 *	30.5	201.7	40,300	38.1	211.4	38,400	110
115				24.2	192.1	38,100	33.2	204.4	36,300	115
120				15.9	178.4	36,000	27.5	195.9	34,300	120
125							20.4	184.6	32,600	125
130							9.2	165.7	30,900	130
135										135
140										140
145										145
150										150
155										155
160										160
165										165



ANSI B30.5

14000 S-2



144.4 ft

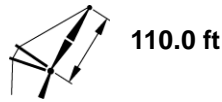
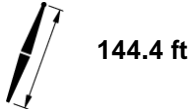


100.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	45,500							90
95	59.0	232.6	42,500							95
100	55.6	229.4	39,900							100
105	52.1	225.7	37,500							105
110	48.3	221.6	35,300	57.0	226.7	32,200				110
115	44.4	216.8	33,300	53.5	223.2	30,400				115
120	40.1	211.3	31,500	49.8	219.3	28,800				120
125	35.4	204.8	29,900	46.0	214.7	27,300				125
130	30.2	197.1	28,400	41.8	209.6	25,900	51.0	215.6	23,400	130
135	23.8	187.3	27,000	37.3	203.5	24,600	47.2	211.2	22,200	135
140	15.3	173.2	25,700	32.3	196.3	23,400	43.2	206.3	21,100	140
145				26.5	187.4	22,300	38.8	200.5	20,100	145
150				19.1	175.5	21,200	33.9	193.7	19,200	150
155				5.6	152.7	20,200	28.4	185.4	18,300	155
160							21.6	174.7	17,400	160
165							11.6	158.0	16,600	165

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	66,500 *b				60
65	62.3	249.4	60,000 *	68.0	253.0	64,500 *b				65
70	59.3	246.6	58,100 *	65.2	250.8	62,500 *				70
75	56.2	243.4	56,100 *	62.3	248.4	59,100 *	66.6	250.7	60,900 *b	75
80	53.0	239.9	53,600 *	59.3	245.6	56,000 *	63.7	248.4	57,200	80
85	49.7	235.9	50,800 *	56.2	242.4	53,100 *	60.8	245.7	53,100	85
90	46.2	231.4	48,300 *	53.0	238.9	50,400 *	57.7	242.8	49,400	90
95	42.4	226.2	46,000 *	49.7	234.9	47,800 *	54.6	239.4	46,200	95
100	38.4	220.4	43,900 *	46.2	230.3	45,400	51.3	235.6	43,300	100
105	34.0	213.5	41,800 *	42.4	225.2	42,700	47.9	231.4	40,700	105
110	29.0	205.4	39,900 *	38.4	219.4	40,300	44.3	226.6	38,400	110
115	23.1	195.1	38,100 *	34.0	212.5	38,100	40.4	221.1	36,300	115
120	15.1	180.7	35,600 *	29.0	204.4	36,100	36.2	214.8	34,400	120
125				23.1	194.2	34,200	31.6	207.4	32,600	125
130				15.2	179.7	32,500	26.2	198.3	31,000	130
135							19.5	186.4	29,500	135
140							8.8	166.5	28,000	140
145										145
150										150
155										155
160										160
165										165
170										170
175										175



ANSI B30.5

14000 S-2



144.4 ft

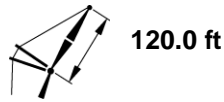


110.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	42,500							95
100	59.1	241.2	39,800							100
105	56.0	238.1	37,400							105
110	52.8	234.5	35,300							110
115	49.5	230.5	33,300	57.2	235.4	30,400				115
120	46.0	225.9	31,500	54.1	232.0	28,700				120
125	42.2	220.7	29,900	50.8	228.1	27,200				125
130	38.2	214.8	28,400	47.4	223.8	25,800				130
135	33.7	207.9	27,000	43.7	218.9	24,600	51.8	224.4	22,200	135
140	28.7	199.7	25,700	39.8	213.3	23,400	48.5	220.2	21,100	140
145	22.7	189.3	24,500	35.5	206.8	22,300	44.9	215.5	20,100	145
150	14.6	174.5	23,400	30.8	199.1	21,300	41.0	210.1	19,200	150
155				25.2	189.7	20,300	36.9	203.9	18,300	155
160				18.2	177.2	19,400	32.3	196.7	17,500	160
165				5.4	153.2	18,500	27.1	187.9	16,700	165
170							20.6	176.6	15,900	170
175							11.1	159.0	15,200	175

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	48,200 *				75
80	56.5	252.1	45,300 *	62.1	257.0	47,500 *	66.0	259.4	48,400 *	80
85	53.6	248.6	44,600 *	59.3	254.2	46,800 *	63.4	257.1	47,800 *	85
90	50.6	244.7	43,100 *	56.5	251.1	46,100 *	60.7	254.4	47,200 *	90
95	47.4	240.4	41,500 *	53.6	247.6	45,100 *	57.9	251.4	45,800	95
100	44.1	235.5	40,000 *	50.6	243.7	43,400 *	55.1	248.1	43,000	100
105	40.5	230.0	38,700 *	47.4	239.4	41,600 *	52.1	244.4	40,400	105
110	36.7	223.8	37,400 *	44.1	234.5	39,700 *	49.0	240.3	38,100	110
115	32.5	216.5	36,300 *	40.6	229.0	37,800	45.8	235.7	36,000	115
120	27.7	207.9	35,200 *	36.7	222.7	35,800	42.3	230.6	34,100	120
125	22.1	197.1	33,700 *	32.5	215.5	34,000	38.6	224.7	32,300	125
130	14.5	182.0	31,400 *	27.8	206.9	32,300	34.6	218.0	30,700	130
135				22.1	196.1	30,700	30.2	210.1	29,200	135
140				14.5	181.0	29,200	25.0	200.6	27,800	140
145							18.6	188.1	26,500	145
150							8.4	167.2	25,300	150
155										155
160										160
165										165
170										170
175										175
180										180
185										185



ANSI B30.5

14000 S-2



144.4 ft

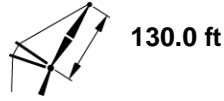
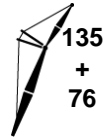


120.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	39,400							100
105	59.2	249.9	37,000							105
110	56.4	246.7	34,900							110
115	53.4	243.2	32,900							115
120	50.4	239.3	31,200	57.5	244.1	28,300				120
125	47.2	234.9	29,500	54.6	240.7	26,800				125
130	43.9	230.1	28,000	51.6	236.9	25,400				130
135	40.3	224.5	26,700	48.5	232.7	24,200				135
140	36.5	218.2	25,400	45.2	228.1	23,000	52.6	233.1	20,700	140
145	32.3	210.9	24,200	41.8	222.8	21,900	49.5	229.1	19,700	145
150	27.5	202.2	23,100	38.0	216.8	20,900	46.3	224.6	18,700	150
155	21.7	191.3	22,100	34.0	209.9	20,000	42.9	219.5	17,900	155
160	13.9	175.7	21,100	29.4	201.8	19,100	39.2	213.8	17,100	160
165				24.1	191.9	18,200	35.3	207.2	16,300	165
170				17.4	178.7	17,400	30.9	199.5	15,600	170
175				5.2	153.6	16,600	25.9	190.3	14,900	175
180							19.7	178.4	14,200	180
185							10.6	159.9	13,600	185

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	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	44,700 *	68.0	270.3	45,300 *	80
85	56.8	260.8	41,100 *	61.9	265.7	44,000 *	65.6	268.1	44,800 *	85
90	54.1	257.4	39,700 *	59.4	262.9	43,000 *	63.1	265.7	44,300 *	90
95	51.3	253.6	38,300 *	56.8	259.8	41,500 *	60.6	263.1	43,700 *	95
100	48.5	249.3	36,900 *	54.1	256.3	40,000 *	58.1	260.1	42,300 *	100
105	45.4	244.7	35,600 *	51.4	252.5	38,600 *	55.5	256.8	40,200 *	105
110	42.3	239.5	34,300 *	48.5	248.3	37,200 *	52.7	253.2	37,800 *	110
115	38.9	233.6	33,100 *	45.5	243.7	35,900 *	49.9	249.2	35,700 *	115
120	35.2	227.0	32,000 *	42.3	238.4	34,600 *	47.0	244.8	33,800 *	120
125	31.2	219.4	31,000 *	38.9	232.6	33,400 *	43.9	239.9	32,100 *	125
130	26.6	210.3	30,100 *	35.2	226.0	32,100 *	40.6	234.3	30,500 *	130
135	21.2	199.0	29,300 *	31.2	218.4	30,600 *	37.1	228.1	29,000 *	135
140	13.9	183.2	28,400 *	26.7	209.3	29,100 *	33.2	221.0	27,600 *	140
145				21.2	198.1	27,800 *	29.0	212.7	26,400 *	145
150				13.9	182.3	26,500 *	24.0	202.7	25,200 *	150
155							17.9	189.7	24,000 *	155
160							8.0	168.0	23,000 *	160
165										165
170										170
175										175
180										180
185										185
190										190
195										195

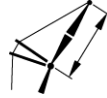


ANSI B30.5

14000 S-2



144.4 ft

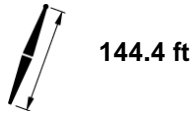


130.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	36,700							105
110	59.3	258.6	34,600							110
115	56.7	255.4	32,700							115
120	54.0	252.0	30,900							120
125	51.2	248.1	29,300	57.7	252.7	26,500				125
130	48.3	243.9	27,800	55.0	249.4	25,200				130
135	45.3	239.2	26,400	52.3	245.7	23,900				135
140	42.1	234.0	25,200	49.4	241.6	22,800				140
145	38.7	228.1	24,000	46.5	237.1	21,700				145
150	35.0	221.4	22,900	43.4	232.1	20,700	50.3	238.0	18,500	150
155	31.0	213.7	21,900	40.0	226.5	19,700	47.4	233.6	17,600	155
160	26.4	204.6	20,900	36.5	220.2	18,800	44.4	228.7	16,800	160
165	20.9	193.2	20,000	32.6	212.9	18,000	41.1	223.3	16,100	165
170	13.4	176.9	19,100	28.3	204.4	17,200	37.6	217.2	15,400	170
175				23.2	194.0	16,500	33.9	210.3	14,700	175
180				16.7	180.2	15,800	29.7	202.2	14,000	180
185				5.0	154.1	15,100	24.9	192.5	13,400	185
190							18.9	180.1	12,900	190
195							10.2	160.8	12,300	195

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	40,700 *	67.4	279.0	41,700 *	85
90	57.0	269.5	36,200 *	61.8	274.4	39,300 *	65.2	276.9	41,300 *	90
95	54.5	266.1	34,700 *	59.4	271.5	37,900 *	62.9	274.4	40,000 *	95
100	52.0	262.3	33,400 *	57.0	268.5	36,400 *	60.6	271.7	38,500 *	100
105	49.4	258.2	32,100 *	54.6	265.0	35,100 *	58.2	268.8	37,100 *	105
110	46.6	253.7	30,900 *	52.0	261.3	33,700 *	55.8	265.5	35,800 *	110
115	43.7	248.8	29,700 *	49.4	257.2	32,300 *	53.3	262.0	34,400 *	115
120	40.7	243.2	28,500 *	46.6	252.7	31,200 *	50.7	258.1	33,100 *	120
125	37.4	237.1	27,500 *	43.7	247.7	29,900 *	48.0	253.8	31,800 *	125
130	33.9	230.1	26,400 *	40.7	242.2	28,800 *	45.2	249.0	30,200	130
135	30.0	222.1	25,500 *	37.4	236.1	27,700 *	42.2	243.8	28,700	135
140	25.7	212.6	24,600 *	33.9	229.1	26,700 *	39.1	238.0	27,300	140
145	20.4	200.9	23,900 *	30.1	221.1	25,700 *	35.7	231.4	26,100	145
150	13.4	184.4	23,200 *	25.7	211.6	24,800 *	32.0	224.0	24,900	150
155				20.5	199.9	24,000 *	27.9	215.3	23,800	155
160				13.4	183.5	23,400 *	23.2	204.8	22,700	160
165							17.2	191.2	21,800	165
170							7.8	168.6	20,800	170
175										175
180										180
185										185
190										190
195										195
200										200
205										205



ANSI B30.5

14000 S-2



144.4 ft



140.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	34,200							110
115	59.3	267.2	32,300							115
120	56.9	264.1	30,500							120
125	54.4	260.7	28,900							125
130	51.9	257.0	27,400	57.8	261.4	24,800				130
135	49.2	252.8	26,100	55.4	258.1	23,500				135
140	46.4	248.3	24,800	52.9	254.5	22,400				140
145	43.6	243.3	23,700	50.3	250.5	21,300				145
150	40.5	237.7	22,600	47.5	246.1	20,300				150
155	37.2	231.6	21,600	44.7	241.3	19,400	51.1	246.8	17,200	155
160	33.7	224.5	20,600	41.7	236.0	18,500	48.4	242.6	16,400	160
165	29.8	216.4	19,700	38.5	230.1	17,700	45.6	237.9	15,700	165
170	25.4	206.9	18,900	35.1	223.4	16,900	42.7	232.7	15,000	170
175	20.1	195.0	18,100	31.4	215.8	16,200	39.5	227.0	14,300	175
180	12.9	178.1	17,300	27.2	206.9	15,500	36.2	220.6	13,700	180
185				22.3	196.0	14,800	32.6	213.3	13,100	185
190				16.1	181.7	14,200	28.6	204.8	12,500	190
195				4.8	154.5	13,500	23.9	194.7	12,000	195
200							18.3	181.7	11,400	200
205							9.8	161.7	10,900	205

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ANSI B30.5



144.4 ft



150.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	38,000 *	90
95	57.2	278.1	31,800 *	61.7	283.0	34,800 *	64.9	285.5	36,600 *	95
100	54.9	274.8	30,500 *	59.5	280.2	33,400 *	62.7	283.1	35,300 *	100
105	52.6	271.1	29,300 *	57.2	277.1	32,100 *	60.6	280.4	34,000 *	105
110	50.1	267.1	28,100 *	54.9	273.8	30,800 *	58.3	277.4	32,700 *	110
115	47.6	262.7	26,900 *	52.6	270.1	29,500 *	56.1	274.2	31,400 *	115
120	44.9	258.0	25,800 *	50.1	266.1	28,300 *	53.7	270.7	30,100 *	120
125	42.2	252.7	24,700 *	47.6	261.7	27,100 *	51.3	266.9	29,000 *	125
130	39.2	246.9	23,600 *	44.9	257.0	25,900 *	48.8	262.7	27,700 *	130
135	36.1	240.4	22,700 *	42.2	251.7	24,800 *	46.3	258.1	26,600 *	135
140	32.7	233.1	21,700 *	39.2	245.9	23,800 *	43.5	253.1	25,500 *	140
145	29.0	224.7	20,900 *	36.1	239.4	22,900 *	40.7	247.6	24,400 *	145
150	24.8	214.9	20,100 *	32.7	232.1	21,900 *	37.7	241.4	23,400 *	150
155	19.7	202.6	19,400 *	29.0	223.7	21,100 *	34.4	234.6	22,500 *	155
160	12.9	185.6	18,800 *	24.8	213.9	20,200 *	30.9	226.8	21,500 *	160
165				19.7	201.7	19,500 *	26.9	217.7	20,700 *	165
170				13.0	184.6	18,900 *	22.4	206.8	19,900 *	170
175							16.6	192.7	19,200 *	175
180							7.5	169.3	18,700 *	180
185										185
190										190
195										195
200										200
205										205
210										210
215										215



ANSI B30.5

14000 S-2



144.4 ft

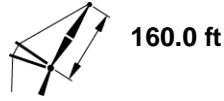
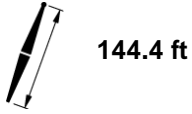
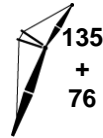


150.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	32,200							115
120	59.4	275.9	30,400							120
125	57.1	272.8	28,800							125
130	54.8	269.4	27,300							130
135	52.4	265.7	26,000	58.0	270.1	23,400				135
140	50.0	261.7	24,700	55.7	266.8	22,200				140
145	47.4	257.3	23,600	53.4	263.2	21,200				145
150	44.8	252.5	22,500	50.9	259.3	20,200				150
155	42.0	247.2	21,500	48.4	255.1	19,200				155
160	39.1	241.4	20,500	45.8	250.5	18,400	51.7	255.6	16,300	160
165	35.9	234.9	19,600	43.1	245.4	17,600	49.2	251.5	15,600	165
170	32.5	227.5	18,800	40.2	239.7	16,800	46.7	246.9	14,900	170
175	28.8	219.1	18,000	37.2	233.5	16,100	44.0	242.0	14,200	175
180	24.5	209.1	17,300	33.9	226.5	15,400	41.1	236.6	13,600	180
185	19.4	196.7	16,500	30.3	218.5	14,800	38.2	230.5	13,000	185
190	12.5	179.2	15,900	26.3	209.2	14,100	34.9	223.8	12,400	190
195				21.5	198.0	13,600	31.5	216.1	11,900	195
200				15.5	183.1	13,000	27.6	207.3	11,400	200
205				4.6	154.9	12,400	23.1	196.8	10,900	205
210							17.6	183.3	10,400	210
215							9.5	162.6	10,000	215

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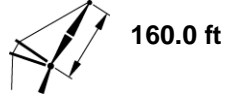
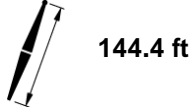
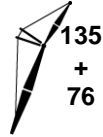


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
60	73.2	305.2	37,400 *							60
65	71.3	303.6	36,800 *							65
70	69.4	301.8	35,500 *							70
75	67.5	299.9	34,200 *							75
80	65.6	297.7	32,800 *	69.4	300.8	35,500 *				80
85	63.6	295.3	31,400 *	67.5	298.8	34,200 *				85
90	61.6	292.7	30,100 *	65.6	296.7	32,800 *				90
95	59.5	289.9	28,700 *	63.6	294.3	31,500 *	66.5	296.5	33,300 *	95
100	57.4	286.8	27,500 *	61.6	291.7	30,200 *	64.6	294.2	32,100 *	100
105	55.2	283.5	26,300 *	59.5	288.9	29,000 *	62.6	291.8	30,800 *	105
110	53.0	279.9	25,100 *	57.4	285.8	27,600 *	60.5	289.0	29,500 *	110
115	50.8	276.0	23,900 *	55.3	282.5	26,400 *	58.4	286.1	28,300 *	115
120	48.4	271.7	22,800 *	53.1	278.9	25,200 *	56.3	282.9	27,100 *	120
125	46.0	267.1	21,800 *	50.8	274.9	24,100 *	54.1	279.4	25,900 *	125
130	43.4	262.0	20,700 *	48.4	270.7	23,000 *	51.9	275.7	24,700 *	130
135	40.8	256.5	19,700 *	46.0	266.0	21,900 *	49.6	271.6	23,600 *	135
140	37.9	250.4	18,800 *	43.4	261.0	20,900 *	47.2	267.1	22,500 *	140
145	34.9	243.6	17,900 *	40.8	255.5	19,900 *	44.7	262.3	21,500 *	145
150	31.7	236.0	17,100 *	37.9	249.4	19,000 *	42.1	257.0	20,500 *	150
155	28.1	227.3	16,400 *	34.9	242.6	18,100 *	39.4	251.2	19,500 *	155
160	24.0	217.0	15,600 *	31.7	235.0	17,200 *	36.4	244.8	18,600 *	160
165	19.1	204.4	14,900 *	28.1	226.3	16,500 *	33.3	237.6	17,700 *	165
170	12.5	186.7	14,400 *	24.0	216.1	15,700 *	29.9	229.5	16,900 *	170
175				19.1	203.4	15,000 *	26.1	220.1	16,200 *	175
180				12.6	185.8	14,400 *	21.6	208.8	15,400 *	180
185							16.1	194.1	14,700 *	185
190							7.3	170.0	14,100 *	190
195										195
200										200
205										205
210										210
215										215
220										220
225										225



ANSI B30.5

14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	61.5	287.4	29,700 *							120
125	59.4	284.5	28,400							125
130	57.3	281.5	27,000							130
135	55.1	278.1	25,600							135
140	52.9	274.5	24,400							140
145	50.6	270.5	23,200	56.0	275.5	20,800				145
150	48.3	266.3	22,100	53.8	272.0	19,800				150
155	45.8	261.6	21,100	51.5	268.1	18,900				155
160	43.3	256.5	20,200	49.2	264.0	18,000				160
165	40.6	251.0	19,300	46.8	259.5	17,200	52.2	264.4	15,100	165
170	37.8	244.9	18,500	44.3	254.6	16,400	49.9	260.3	14,500	170
175	34.7	238.0	17,700	41.7	249.2	15,700	47.6	256.0	13,800	175
180	31.5	230.4	17,000	38.9	243.3	15,000	45.1	251.2	13,200	180
185	27.9	221.6	16,300	36.0	236.8	14,400	42.5	246.0	12,600	185
190	23.7	211.2	15,600	32.8	229.5	13,800	39.8	240.2	12,100	190
195	18.8	198.4	14,900	29.3	221.2	13,200	36.9	233.9	11,500	195
200	12.1	180.3	14,300	25.4	211.5	12,700	33.8	226.9	11,000	200
205				20.9	199.8	12,100	30.4	218.9	10,600	205
210				15.0	184.4	11,600	26.7	209.7	10,100	210
215				4.5	155.3	11,100	22.4	198.8	9,700	215
220							17.1	184.8	9,200	220
225							9.2	163.4	8,800	225

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	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 *						80	
85	65.2	306.4	28,800 *	70.7	311.4	32,700 *			85	
90	63.4	304.0	27,500 *	68.9	309.6	31,400 *			90	
95	61.5	301.4	26,300 *	67.1	307.6	30,100 *			95	
100	59.5	298.5	25,100 *	65.2	305.4	28,900 *	68.0	307.4	30,500 *	100
105	57.6	295.5	23,900 *	63.4	303.0	27,600 *	66.2	305.2	29,300 *	105
110	55.5	292.2	22,800 *	61.5	300.4	26,400 *	64.3	302.9	28,100 *	110
115	53.5	288.6	21,600 *	59.5	297.5	25,200 *	62.4	300.4	27,000 *	115
120	51.3	284.8	20,600 *	57.6	294.5	24,100 *	60.5	297.7	25,800 *	120
125	49.1	280.6	19,600 *	55.5	291.2	22,900 *	58.5	294.8	24,600 *	125
130	46.9	276.1	18,600 *	53.5	287.6	21,800 *	56.5	291.6	23,500 *	130
135	44.5	271.2	17,600 *	51.3	283.8	20,700 *	54.5	288.2	22,400 *	135
140	42.1	265.9	16,700 *	49.2	279.6	19,700 *	52.4	284.5	21,300 *	140
145	39.5	260.1	15,800 *	46.9	275.1	18,700 *	50.2	280.5	20,300 *	145
150	36.8	253.8	15,000 *	44.5	270.2	17,700 *	48.0	276.1	19,200 *	150
155	33.8	246.7	14,200 *	42.1	264.9	16,800 *	45.7	271.4	18,200 *	155
160	30.7	238.8	13,400 *	39.5	259.1	15,900 *	43.3	266.4	17,400 *	160
165	27.2	229.7	12,500 *	36.8	252.7	15,100 *	40.8	260.8	16,400 *	165
170	23.2	219.1	11,600 *	33.9	245.7	14,300 *	38.1	254.7	15,600 *	170
175	18.5	206.0	10,800 *	30.7	237.8	13,500 *	35.3	248.0	14,800 *	175
180	12.1	187.8	10,100 *	27.2	228.7	12,600 *	32.3	240.6	14,000 *	180
185				23.3	218.1	11,700 *	29.0	232.1	13,100 *	185
190				18.5	205.1	10,800 *	25.3	222.4	12,100 *	190
195				12.2	186.8	10,100 *	21.0	210.6	11,200 *	195
200							15.6	195.5	10,500 *	200
205							7.0	170.6	9,800 *	205
210										210
215										215
220										220
225										225
230										230
235										235

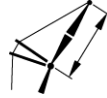


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14000 S-2



144.4 ft

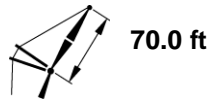
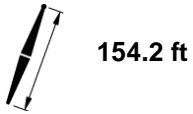


170.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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										120
125	61.4	296.0	26,100 *							125
130	59.4	293.2	24,900 *							130
135	57.4	290.1	23,900 *							135
140	55.4	286.8	22,800 *							140
145	53.4	283.2	21,700 *							145
150	51.2	279.4	20,700 *	56.2	284.2	19,500				150
155	49.0	275.2	19,700 *	54.2	280.7	18,600				155
160	46.8	270.7	18,700 *	52.1	276.9	17,700				160
165	44.4	265.8	17,800 *	49.9	272.9	16,900				165
170	41.9	260.4	16,800 *	47.7	268.5	16,200	52.7	273.1	14,200	170
175	39.3	254.6	16,000 *	45.3	263.8	15,500	50.6	269.2	13,500	175
180	36.6	248.2	15,200 *	42.9	258.6	14,800	48.4	264.9	12,900	180
185	33.7	241.1	14,400 *	40.4	253.0	14,200	46.1	260.3	12,300	185
190	30.5	233.1	13,600 *	37.7	246.8	13,600	43.7	255.3	11,800	190
195	27.0	224.0	12,600 *	34.8	240.0	13,000	41.2	249.8	11,300	195
200	23.0	213.3	11,700 *	31.8	232.4	12,400	38.5	243.8	10,800	200
205	18.2	200.0	10,900 *	28.4	223.8	11,900	35.8	237.2	10,300	205
210	11.7	181.3	10,100 *	24.6	213.7	11,400	32.8	229.9	9,900	210
215				20.2	201.6	11,000	29.5	221.6	9,400	215
220				14.6	185.7	10,500 *	25.9	212.1	9,000	220
225				4.3	155.7	9,800 *	21.7	200.7	8,600	225
230							16.6	186.3	8,200	230
235							8.9	164.1	7,800	235

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ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	90,000 *c				50
55	54.5	218.8	78,100 *b	64.6	224.0	83,500 *c				55
60	49.3	214.9	73,000 *b	60.0	221.4	77,700 *b	67.3	224.0	81,200 *c	60
65	43.6	210.1	68,200 *	55.2	218.2	72,500 *b	62.8	221.7	74,500 b	65
70	37.3	204.3	63,900 *	50.0	214.4	67,700 *b	58.1	218.9	68,000 b	70
75	29.9	196.7	60,000 *	44.4	209.8	63,400 *	53.1	215.4	62,400 b	75
80	20.2	186.1	56,400 *	38.2	204.1	59,500 *	47.8	211.3	57,600	80
85				31.0	196.9	55,900 *	42.0	206.3	53,400	85
90				21.8	186.8	52,100	35.5	200.1	49,700	90
95				1.5	162.6	44,200 *	27.6	191.9	46,500	95
100							16.8	179.7	43,500	100
105										105
110										110
115										115
120										120
125										125
130										130
135										135
140										140



ANSI B30.5

14000 S-2



154.2 ft

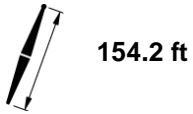


70.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	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	61.0	217.6	52,900 b							85
90	56.2	214.5	49,100 b							90
95	51.1	210.9	45,700 b							95
95	45.7	206.4	42,700							95
100	39.6	201.0	40,000	54.0	208.7	36,500 b				100
105	32.7	194.1	37,600	48.8	204.7	34,300				105
110	24.1	184.9	35,400	43.1	199.9	32,300				110
115	10.1	168.6	33,400	36.7	193.9	30,500	51.3	201.4	27,600 b	115
120				29.1	186.2	28,800	45.8	197.0	26,100	120
125				19.1	175.0	27,300	39.8	191.6	24,700	125
130							32.9	184.8	23,400	130
135							24.3	175.6	22,200	135
140							10.6	159.7	21,000	140

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36										36
38	74.3	238.9	84,200 *d							38
40	72.8	238.3	84,100 *c							40
45	71.3	237.6	84,000 *c							45
50	67.4	235.7	83,800 *c							50
55	63.5	233.4	81,500 *b							55
60	59.4	230.7	76,100 *b	68.0	234.9	81,000 *c				60
65	55.2	227.5	71,300 *	64.1	232.7	75,600 *b				65
70	50.7	223.7	66,800 *	60.0	230.1	70,800 *b	66.4	232.8	73,500 *b	70
75	45.9	219.3	62,800 *	55.8	226.9	66,300 *b	62.4	230.4	67,600 b	75
80	40.7	214.0	59,100 *	51.3	223.2	62,300 *	58.3	227.5	62,000 b	80
85	34.8	207.5	55,700 *	46.6	218.9	58,500 *	54.0	224.2	57,200	85
90	27.9	199.3	52,600 *	41.4	213.7	55,100 *	49.4	220.2	53,100	90
95	18.9	187.8	49,700 *	35.7	207.4	51,900	44.6	215.6	49,400	95
100				29.0	199.5	48,500	39.2	210.0	46,200	100
105				20.4	188.7	45,500	33.1	203.1	43,300	105
110				1.4	162.7	39,300 *	25.8	194.3	40,700	110
115							15.7	181.1	38,300	115
120										120
125										125
130										130
135										135
140										140
145										145
150										150



ANSI B30.5

14000 S-2



154.2 ft

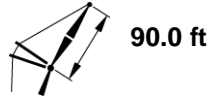
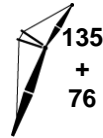


80.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	48,600 b							85
90	56.7	223.2	45,300 b							90
95	52.3	219.6	42,300							95
100	47.6	215.4	39,700							100
105	42.6	210.5	37,300	54.8	217.5	33,900				105
110	37.0	204.4	35,100	50.3	213.6	31,900				110
115	30.5	197.0	33,200	45.4	209.1	30,100				115
120	22.5	186.9	31,400	40.1	203.7	28,500	52.4	210.2	25,600	120
125	9.4	169.4	29,600	34.2	197.1	27,000	47.7	206.0	24,300	125
130				27.2	188.7	25,600	42.7	201.0	23,000	130
135				17.9	176.6	24,300	37.1	195.1	21,900	135
140							30.7	187.6	20,800	140
145							22.7	177.7	19,800	145
150							10.0	160.6	18,700	150

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	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38										38
40										40
45										45
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										110
115										115
120										120
125										125
130										130
135										135
140										140
145										145
150										150
155										155
160										160



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154.2 ft



90.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	45,000 b							90
95	57.1	231.9	42,100							95
100	53.2	228.4	39,400							100
105	49.1	224.4	37,100							105
110	44.7	219.7	34,900	55.4	226.2	31,600				110
115	40.0	214.2	33,000	51.4	222.4	29,900				115
120	34.8	207.7	31,200	47.2	218.1	28,300				120
125	28.7	199.6	29,600	42.7	213.1	26,800				125
130	21.2	188.9	28,100	37.8	207.2	25,400	49.2	214.9	22,800	130
135	8.9	170.2	26,600	32.2	200.1	24,200	44.9	210.3	21,600	135
140				25.6	191.0	23,000	40.1	204.8	20,600	140
145				16.8	178.2	21,900	34.9	198.3	19,600	145
150							28.9	190.3	18,700	150
155							21.4	179.6	17,800	155
160							9.4	161.5	16,900	160

14000 S-2

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154.2 ft



100.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
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										110
115										115
120										120
125										125
130										130
135										135
140										140
145										145
150										150
155										155
160										160
165										165
170										170

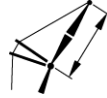


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14000 S-2



154.2 ft

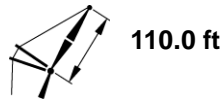
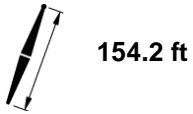


100.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	41,700							95
100	57.4	240.6	39,000							100
105	53.9	237.1	36,700							105
110	50.3	233.2	34,600							110
115	46.4	228.8	32,600	55.8	234.9	29,400				115
120	42.3	223.7	30,900	52.3	231.2	27,800				120
125	37.9	217.8	29,300	48.6	227.1	26,400				125
130	32.9	210.7	27,800	44.6	222.4	25,000				130
135	27.2	202.1	26,400	40.4	216.9	23,800	50.4	223.8	21,200	135
140	20.1	190.7	25,100	35.8	210.6	22,600	46.5	219.4	20,100	140
145	8.4	171.0	23,900	30.5	202.9	21,500	42.4	214.3	19,200	145
150				24.3	193.2	20,500	38.0	208.4	18,300	150
155				16.0	179.6	19,600	33.1	201.4	17,400	155
160							27.4	192.8	16,600	160
165							20.3	181.5	15,800	165
170							8.9	162.3	15,100	170

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	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	64,000 *b				65
70	59.6	256.7	57,700 *	65.9	261.1	61,200 *				70
75	56.5	253.6	55,500 *	63.0	258.7	58,000 *	67.5	261.1	59,500 *b	75
80	53.3	250.1	52,700 *	60.0	256.0	54,900 *	64.7	258.9	56,400 *	80
85	50.0	246.1	50,000 *	57.0	253.0	52,100 *	61.8	256.4	52,400 *	85
90	46.5	241.7	47,600 *	53.8	249.5	49,500 *	58.8	253.5	48,800 *	90
95	42.8	236.6	45,300 *	50.5	245.6	47,000 *	55.7	250.3	45,600 *	95
100	38.8	230.8	43,200 *	47.0	241.2	44,700 *	52.5	246.7	42,800 *	100
105	34.5	224.1	41,200 *	43.4	236.3	42,400 *	49.1	242.6	40,200 *	105
110	29.6	216.1	39,300 *	39.4	230.6	40,000 *	45.6	238.0	37,900 *	110
115	23.7	206.1	37,400 *	35.1	224.0	37,800 *	41.8	232.8	35,900 *	115
120	16.1	192.4	35,700 *	30.3	216.2	35,800 *	37.7	226.7	34,000 *	120
125				24.6	206.6	34,000 *	33.2	219.7	32,200 *	125
130				17.4	193.6	32,300 *	28.1	211.3	30,600 *	130
135				1.2	163.0	29,000 *	22.0	200.6	29,100 *	135
140							13.4	184.9	27,700 *	140
145										145
150										150
155										155
160										160
165										165
170										170
175										175
180										180



ANSI B30.5

14000 S-2



154.2 ft

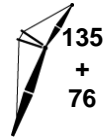


110.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	39,000							100
105	57.6	249.2	36,600							105
110	54.5	245.9	34,500							110
115	51.2	242.1	32,600							115
120	47.8	237.8	30,900	56.2	243.6	27,800				120
125	44.2	233.0	29,300	53.0	240.0	26,300				125
130	40.3	227.5	27,800	49.7	236.0	25,000				130
135	36.1	221.1	26,400	46.2	231.5	23,800				135
140	31.4	213.6	25,200	42.5	226.4	22,600	51.3	232.6	20,100	140
145	25.9	204.5	24,000	38.4	220.5	21,500	47.9	228.4	19,100	145
150	19.1	192.4	22,900	34.0	213.7	20,500	44.2	223.5	18,200	150
155	8.0	171.7	21,800	29.1	205.6	19,600	40.4	218.1	17,400	155
160				23.1	195.4	18,700	36.2	211.7	16,600	160
165				15.2	181.0	17,900	31.5	204.2	15,900	165
170							26.1	195.1	15,200	170
175							19.3	183.2	14,500	175
180							8.5	163.0	13,800	180

14000 S-2

ANSI B30.5



154.2 ft



120.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	47,600 *				75
80	56.8	262.3	44,700 *	62.7	267.4	46,900 *	66.9	269.9	47,700 *	80
85	53.9	258.8	44,000 *	60.0	264.7	46,200 *	64.3	267.6	47,200 *	85
90	50.9	255.0	43,100 *	57.2	261.6	45,600 *	61.6	265.0	46,600 *	90
95	47.7	250.7	41,500 *	54.3	258.2	44,900 *	58.9	262.2	45,300 *	95
100	44.4	245.9	40,100 *	51.3	254.4	42,800 *	56.1	259.0	42,500 *	100
105	40.9	240.4	38,800 *	48.2	250.2	40,800 *	53.1	255.4	39,900 *	105
110	37.1	234.3	37,500 *	44.9	245.5	39,000 *	50.1	251.5	37,600 *	110
115	33.0	227.1	36,200 *	41.4	240.2	37,200 *	46.9	247.1	35,500 *	115
120	28.3	218.7	34,700 *	37.7	234.1	35,600 *	43.5	242.1	33,600 *	120
125	22.7	208.2	33,200 *	33.6	227.1	33,700 *	39.9	236.5	31,900 *	125
130	15.4	193.7	31,700 *	29.0	218.9	32,100 *	36.1	230.1	30,300 *	130
135				23.6	208.8	30,500 *	31.8	222.6	28,800 *	135
140				16.6	195.1	29,000 *	26.9	213.7	27,500 *	140
145				1.1	163.1	25,700 *	21.0	202.5	26,200 *	145
150							12.8	186.1	25,000 *	150
155										155
160										160
165										165
170										170
175										175
180										180
185										185
190										190



ANSI B30.5

14000 S-2



154.2 ft

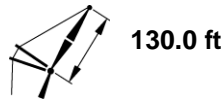
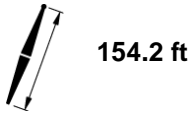


120.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	36,200							105
110	57.8	257.9	34,100							110
115	54.9	254.6	32,200							115
120	52.0	250.9	30,500							120
125	48.9	246.7	28,900	56.5	252.2	25,900				125
130	45.6	242.1	27,400	53.6	248.7	24,600				130
135	42.2	236.9	26,100	50.6	244.9	23,400				135
140	38.5	231.0	24,800	47.4	240.5	22,200				140
145	34.5	224.3	23,700	44.1	235.6	21,200	52.1	241.4	18,700	145
150	30.0	216.4	22,600	40.6	230.2	20,200	49.0	237.3	17,800	150
155	24.8	206.7	21,600	36.8	223.9	19,300	45.7	232.7	17,000	155
160	18.3	194.1	20,600	32.6	216.7	18,400	42.3	227.5	16,200	160
165	7.7	172.4	19,700	27.8	208.1	17,600	38.6	221.6	15,500	165
170				22.1	197.4	16,800	34.6	214.9	14,800	170
175				14.6	182.3	16,100	30.1	207.0	14,100	175
180							25.0	197.4	13,500	180
185							18.5	184.9	12,900	185
190							8.1	163.7	12,300	190

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ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	44,100 *				80
85	57.1	271.0	41,100 *	62.5	276.1	43,500 *	66.4	278.6	44,200 *	85
90	54.4	267.5	39,700 *	60.0	273.4	43,000 *	64.0	276.3	43,700 *	90
95	51.6	263.8	38,200 *	57.4	270.3	41,600 *	61.5	273.7	43,300 *	95
100	48.8	259.6	36,900 *	54.8	267.0	40,200 *	59.0	270.9	42,200	100
105	45.8	255.0	35,600 *	52.0	263.2	38,800 *	56.4	267.7	39,700	105
110	42.6	249.9	34,400 *	49.2	259.1	37,500 *	53.7	264.2	37,400	110
115	39.2	244.1	33,200 *	46.2	254.6	36,200 *	50.9	260.3	35,300	115
120	35.6	237.6	32,100 *	43.1	249.5	34,800 *	48.0	256.0	33,400	120
125	31.6	230.0	31,100 *	39.7	243.9	33,500	44.9	251.3	31,700	125
130	27.1	221.2	30,200 *	36.1	237.4	31,900	41.7	246.0	30,100	130
135	21.8	210.2	29,300 *	32.2	230.1	30,300	38.3	240.0	28,600	135
140	14.8	195.1	28,700 *	27.8	221.4	28,900	34.6	233.3	27,300	140
145				22.6	210.8	27,600	30.5	225.4	26,000	145
150				16.0	196.6	26,300	25.8	216.1	24,800	150
155				1.1	163.2	23,400 *	20.2	204.3	23,700	155
160							12.3	187.2	22,700	160
165										165
170										170
175										175
180										180
185										185
190										190
195										195
200										200

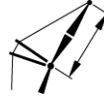


ANSI B30.5

14000 S-2



154.2 ft

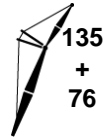


130.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	33,800							110
115	58.0	266.6	31,900							115
120	55.3	263.3	30,200							120
125	52.6	259.6	28,600							125
130	49.8	255.6	27,200	56.8	260.9	24,300				130
135	46.8	251.2	25,800	54.1	257.5	23,100				135
140	43.7	246.2	24,600	51.4	253.7	22,000				140
145	40.5	240.7	23,400	48.5	249.5	20,900				145
150	36.9	234.4	22,400	45.5	244.8	19,900	52.7	250.2	17,500	150
155	33.1	227.3	21,400	42.3	239.6	19,000	49.9	246.2	16,700	155
160	28.8	219.0	20,400	38.9	233.8	18,200	46.9	241.7	15,900	160
165	23.8	208.9	19,500	35.3	227.2	17,400	43.8	236.8	15,200	165
170	17.6	195.6	18,700	31.2	219.5	16,600	40.5	231.3	14,500	170
175	7.4	173.1	17,900	26.7	210.5	15,900	37.0	225.1	13,900	175
180				21.3	199.3	15,200	33.2	217.9	13,300	180
185				14.0	183.5	14,500	28.9	209.6	12,700	185
190							24.0	199.6	12,100	190
195							17.8	186.5	11,600	195
200							7.8	164.4	11,100	200

14000 S-2

ANSI B30.5

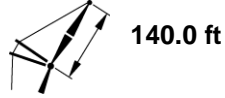
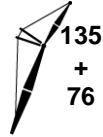


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55	73.1	295.8	43,000 *b						55	
60	71.0	294.2	42,200 *						60	
65	68.8	292.4	41,500 *						65	
70	66.6	290.3	40,900 *						70	
75	64.3	288.0	40,300 *	69.1	291.5	41,700 *			75	
80	62.0	285.5	39,000 *	66.9	289.5	41,200 *			80	
85	59.7	282.7	37,500 *	64.6	287.3	40,700 *			85	
90	57.3	279.6	36,100 *	62.3	284.8	39,400 *	66.0	287.3	40,700 *	90
95	54.8	276.3	34,700 *	60.0	282.0	37,900 *	63.7	285.0	40,000 *	95
100	52.3	272.6	33,400 *	57.6	279.0	36,600 *	61.4	282.4	38,700 *	100
105	49.6	268.5	32,100 *	55.2	275.7	35,200 *	59.0	279.5	37,400 *	105
110	46.9	264.0	30,900 *	52.6	272.0	33,900 *	56.6	276.4	36,100 *	110
115	44.0	259.1	29,700 *	50.0	268.0	32,600 *	54.1	272.9	34,800 *	115
120	41.0	253.7	28,600 *	47.3	263.6	31,400 *	51.6	269.1	33,100	120
125	37.8	247.6	27,600 *	44.4	258.8	30,200 *	48.9	265.0	31,400	125
130	34.3	240.7	26,500 *	41.4	253.4	29,100 *	46.1	260.4	29,800	130
135	30.5	232.8	25,500 *	38.2	247.4	27,900 *	43.2	255.3	28,300	135
140	26.1	223.5	24,700 *	34.8	240.6	26,900 *	40.1	249.7	27,000	140
145	21.0	212.1	23,900 *	31.0	232.9	25,900 *	36.9	243.4	25,700	145
150	14.3	196.3	23,300 *	26.8	223.9	25,000 *	33.3	236.3	24,600	150
155				21.8	212.8	24,300 *	29.4	228.1	23,500	155
160				15.4	197.9	23,600 *	24.9	218.3	22,400	160
165				1.0	163.3	21,200 *	19.5	206.1	21,500	165
170							11.9	188.2	20,500	170
175										175
180										180
185										185
190										190
195										195
200										200
205										205
210										210



ANSI B30.5

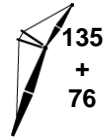
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	62.8	280.9	33,400							110
115	60.5	278.2	31,600							115
120	58.1	275.2	29,800							120
125	55.7	272.0	28,200							125
130	53.2	268.4	26,800							130
135	50.6	264.5	25,500	57.0	269.6	22,700				135
140	47.9	260.2	24,200	54.6	266.2	21,500				140
145	45.0	255.4	23,100	52.0	262.5	20,500				145
150	42.1	250.2	22,000	49.4	258.4	19,500				150
155	38.9	244.3	21,000	46.6	253.9	18,600				155
160	35.5	237.7	20,100	43.7	248.9	17,800	50.6	255.0	15,500	160
165	31.9	230.2	19,200	40.7	243.4	17,000	47.9	250.7	14,800	165
170	27.7	221.5	18,400	37.4	237.2	16,200	45.1	246.0	14,100	170
175	22.9	210.9	17,600	33.9	230.3	15,500	42.1	240.7	13,500	175
180	16.9	197.2	16,900	30.1	222.3	14,900	39.0	234.9	12,900	180
185	7.1	173.7	16,100	25.7	212.8	14,200	35.6	228.3	12,300	185
190				20.5	201.1	13,600	31.9	220.9	11,800	190
195				13.5	184.7	13,000	27.8	212.2	11,300	195
200							23.1	201.7	10,800	200
205							17.1	188.0	10,300	205
210							7.5	165.1	9,800	210

14000 S-2

ANSI B30.5



154.2 ft



150.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	37,900 *	90
95	57.5	288.3	31,900 *	62.2	293.4	34,900 *	65.6	296.0	36,800 *	95
100	55.2	285.0	30,500 *	60.0	290.7	33,500 *	63.5	293.6	35,500 *	100
105	52.8	281.3	29,300 *	57.8	287.7	32,200 *	61.3	291.0	34,200 *	105
110	50.4	277.4	28,100 *	55.5	284.4	31,000 *	59.1	288.2	33,000 *	110
115	47.8	273.0	27,000 *	53.1	280.8	29,700 *	56.9	285.0	31,800 *	115
120	45.2	268.3	25,900 *	50.7	276.9	28,500 *	54.5	281.6	30,500 *	120
125	42.4	263.1	24,800 *	48.2	272.6	27,400 *	52.2	277.9	29,300 *	125
130	39.5	257.3	23,700 *	45.6	267.9	26,200 *	49.7	273.9	28,100 *	130
135	36.4	250.9	22,800 *	42.8	262.8	25,100 *	47.2	269.4	26,900 *	135
140	33.1	243.7	21,800 *	40.0	257.1	24,100 *	44.5	264.6	25,900 *	140
145	29.4	235.5	21,000 *	36.9	250.8	23,100 *	41.7	259.2	24,800 *	145
150	25.2	225.8	20,200 *	33.6	243.7	22,200 *	38.7	253.3	23,800 *	150
155	20.3	213.9	19,500 *	29.9	235.6	21,300 *	35.6	246.7	22,800 *	155
160	13.8	197.6	18,900 *	25.9	226.2	20,500 *	32.1	239.2	21,900 *	160
165				21.1	214.7	19,700 *	28.3	230.7	21,000 *	165
170				14.9	199.2	19,100 *	24.0	220.5	20,300 *	170
175				1.0	163.4	18,700 *	18.8	207.7	19,500 *	175
180							11.5	189.2	18,800	180
185										185
190										190
195										195
200										200
205										205
210										210
215										215
220										220



ANSI B30.5

14000 S-2



154.2 ft

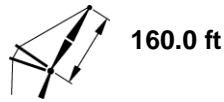
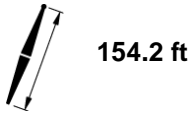


150.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	62.6	289.6	31,400							115
120	60.5	286.9	29,700							120
125	58.3	283.9	28,100							125
130	56.0	280.7	26,700							130
135	53.6	277.1	25,400							135
140	51.2	273.3	24,100	57.2	278.3	21,400				140
145	48.7	269.1	23,000	54.9	274.9	20,400				145
150	46.1	264.5	21,900	52.6	271.2	19,400				150
155	43.4	259.5	20,900	50.1	267.2	18,500				155
160	40.6	253.9	20,000	47.6	262.9	17,700				160
165	37.6	247.8	19,100	45.0	258.1	16,900	51.3	263.8	14,700	165
170	34.3	240.9	18,300	42.2	252.8	16,100	48.8	259.6	14,000	170
175	30.7	233.0	17,600	39.3	247.0	15,400	46.2	255.1	13,400	175
180	26.8	223.9	16,800	36.1	240.6	14,800	43.5	250.1	12,800	180
185	22.2	212.9	16,100	32.8	233.3	14,200	40.7	244.5	12,200	185
190	16.4	198.6	15,500	29.0	224.9	13,600	37.6	238.4	11,700	190
195	6.9	174.3	14,800	24.8	215.1	13,000	34.4	231.5	11,200	195
200				19.8	202.9	12,400	30.8	223.7	10,700	200
205				13.0	185.9	11,900	26.9	214.6	10,200	205
210							22.3	203.7	9,800	210
215							16.5	189.5	9,400	215
220							7.3	165.8	8,900	220

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	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	33,400 *	95
100	57.6	297.0	27,500 *	62.1	302.1	30,400 *	65.2	304.7	32,200 *	100
105	55.5	293.7	26,300 *	60.0	299.3	29,100 *	63.3	302.3	31,000 *	105
110	53.3	290.1	25,100 *	57.9	296.3	27,900 *	61.2	299.7	29,800 *	110
115	51.0	286.2	24,000 *	55.8	293.1	26,700 *	59.2	296.8	28,600 *	115
120	48.7	282.0	22,900 *	53.6	289.5	25,500 *	57.1	293.7	27,400 *	120
125	46.2	277.4	21,800 *	51.3	285.7	24,300 *	54.9	290.4	26,200 *	125
130	43.7	272.4	20,800 *	49.0	281.5	23,200 *	52.7	286.7	25,100 *	130
135	41.0	266.9	19,800 *	46.6	277.0	22,200 *	50.4	282.7	23,900 *	135
140	38.2	260.9	18,900 *	44.1	272.0	21,100 *	48.0	278.4	22,900 *	140
145	35.2	254.2	18,000 *	41.4	266.6	20,200 *	45.6	273.7	21,800 *	145
150	32.0	246.6	17,200 *	38.6	260.7	19,200 *	43.0	268.6	20,800 *	150
155	28.4	238.1	16,400 *	35.7	254.1	18,300 *	40.3	263.0	19,800 *	155
160	24.4	228.0	15,700 *	32.5	246.7	17,500 *	37.5	256.8	18,900 *	160
165	19.6	215.6	15,000 *	29.0	238.3	16,700 *	34.4	249.9	18,000 *	165
170	13.3	198.8	14,400 *	25.0	228.4	16,000 *	31.1	242.1	17,200 *	170
175				20.4	216.5	15,200 *	27.4	233.2	16,400 *	175
180				14.4	200.5	14,600 *	23.2	222.6	15,700 *	180
185				1.0	163.5	13,900 *	18.2	209.4	15,000 *	185
190							11.1	190.2	14,400 *	190
195										195
200										200
205										205
210										210
215										215
220										220
225										225
230										230



ANSI B30.5

14000 S-2



154.2 ft

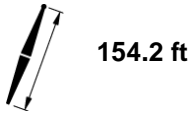


160.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	62.5	298.2	29,300							120
125	60.4	295.5	27,800							125
130	58.4	292.6	26,300							130
135	56.2	289.4	25,000							135
140	54.1	285.9	23,800							140
145	51.8	282.1	22,600	57.4	286.9	20,000				145
150	49.5	278.0	21,600	55.3	283.6	19,000				150
155	47.1	273.5	20,600	53.1	280.0	18,100				155
160	44.6	268.7	19,700	50.8	276.1	17,300				160
165	42.0	263.4	18,800	48.4	271.8	16,500				165
170	39.2	257.6	18,000	46.0	267.2	15,800	51.9	272.6	13,600	170
175	36.3	251.1	17,200	43.5	262.2	15,100	49.6	268.5	13,000	175
180	33.2	243.9	16,500	40.8	256.6	14,400	47.2	264.1	12,400	180
185	29.7	235.7	15,800	38.0	250.5	13,800	44.7	259.3	11,800	185
190	25.9	226.3	15,200	34.9	243.8	13,200	42.1	254.0	11,300	190
195	21.4	214.9	14,500	31.7	236.2	12,700	39.3	248.1	10,800	195
200	15.8	200.0	13,900	28.1	227.5	12,100	36.4	241.7	10,300	200
205	6.7	174.9	13,300	24.0	217.2	11,600	33.3	234.5	9,900	205
210				19.1	204.6	11,100	29.8	226.4	9,400	210
215				12.6	187.0	10,600	26.0	216.9	9,000	215
220							21.6	205.6	8,600	220
225							16.0	190.9	8,200	225
230							7.0	166.4	7,800	230

14000 S-2

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	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	29,500 *	100
105	57.8	305.6	24,000 *	61.9	310.8	26,600 *	64.9	313.5	28,400 *	105
110	55.7	302.4	22,800 *	60.0	308.0	25,400 *	63.1	311.0	27,200 *	110
115	53.7	298.8	21,700 *	58.0	305.0	24,300 *	61.2	308.4	26,100 *	115
120	51.6	295.0	20,700 *	56.0	301.7	23,100 *	59.2	305.5	24,900 *	120
125	49.4	290.9	19,600 *	54.0	298.2	22,000 *	57.2	302.4	23,800 *	125
130	47.1	286.4	18,700 *	51.9	294.5	20,900 *	55.2	299.0	22,700 *	130
135	44.8	281.6	17,700 *	49.7	290.4	20,000 *	53.1	295.4	21,600 *	135
140	42.3	276.3	16,800 *	47.4	286.0	18,900 *	51.0	291.5	20,600 *	140
145	39.8	270.6	16,000 *	45.1	281.2	18,000 *	48.8	287.3	19,600 *	145
150	37.0	264.3	15,100 *	42.7	276.0	17,100 *	46.5	282.8	18,600 *	150
155	34.2	257.3	14,300 *	40.1	270.3	16,200 *	44.1	277.8	17,700 *	155
160	31.0	249.5	13,500 *	37.4	264.1	15,400 *	41.7	272.5	16,700 *	160
165	27.6	240.6	12,600 *	34.6	257.2	14,600 *	39.1	266.6	15,900 *	165
170	23.7	230.1	11,700 *	31.5	249.5	13,800 *	36.3	260.1	15,100 *	170
175	19.1	217.4	10,900 *	28.1	240.8	12,800 *	33.3	252.9	14,300 *	175
180	12.9	199.9	10,100 *	24.3	230.6	11,900 *	30.1	244.8	13,400 *	180
185				19.8	218.3	11,000 *	26.6	235.6	12,500 *	185
190				14.0	201.8	10,300 *	22.5	224.6	11,600 *	190
195				0.9	163.6	9,700 *	17.6	210.9	10,700 *	195
200							10.8	191.2	10,000 *	200
205										205
210										210
215										215
220										220
225										225
230										230
235										235
240										240



ANSI B30.5

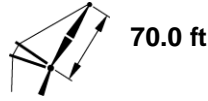
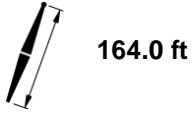
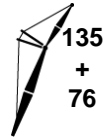
14000 S-2



ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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										120
125	62.3	306.9	26,400 *							125
130	60.4	304.2	25,400 *							130
135	58.5	301.2	24,300 *							135
140	56.5	298.0	23,300 *							140
145	54.4	294.6	22,200 *							145
150	52.3	290.9	21,200 *	57.6	295.6	18,700				150
155	50.2	286.9	20,200 *	55.6	292.3	17,900				155
160	47.9	282.5	19,200 *	53.5	288.7	17,000				160
165	45.6	277.8	18,300 *	51.4	284.9	16,200				165
170	43.2	272.7	17,400 *	49.2	280.7	15,500				170
175	40.7	267.2	16,500 *	46.9	276.2	14,800	52.4	281.4	12,700	175
180	38.0	261.1	15,600 *	44.5	271.4	14,200	50.2	277.4	12,100	180
185	35.2	254.3	14,900 *	42.1	266.1	13,500	48.0	273.1	11,600	185
190	32.2	246.8	14,100 *	39.5	260.3	13,000	45.7	268.4	11,000	190
195	28.8	238.3	13,100 *	36.8	253.9	12,400	43.3	263.3	10,500	195
200	25.1	228.5	12,200 *	33.9	246.9	11,900	40.7	257.7	10,100	200
205	20.8	216.7	11,400 *	30.7	238.9	11,400	38.1	251.7	9,600	205
210	15.4	201.4	10,600 *	27.2	229.9	10,900	35.3	244.9	9,200	210
215	6.5	175.5	9,900 *	23.3	219.3	10,400	32.2	237.5	8,800	215
220				18.6	206.2	10,000	28.9	229.0	8,400	220
225				12.2	188.1	9,600	25.2	219.2	8,000	225
230							20.9	207.5	7,600	230
235							15.5	192.3	7,300	235
240							6.8	167.0	6,900	240

14000 S-2

ANSI B30.5

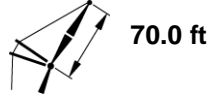
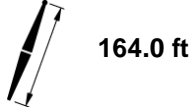
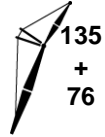


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
34	74.1	239.0	88,200 *d							34
36	72.4	238.4	88,100 *d							36
38	70.7	237.7	88,100 *c							38
40	68.9	237.0	88,000 *c							40
45	64.5	234.9	87,300 *c							45
50	59.8	232.2	81,200 *b	70.1	236.4	87,700 *c				50
55	55.0	229.0	75,700 *b	65.7	234.3	81,600 *c				55
60	49.8	225.2	70,800 *b	61.1	231.8	76,000 *b				60
65	44.2	220.5	66,300 *	56.4	228.8	70,900 *b	64.3	232.2	73,700 c	65
70	38.0	214.8	62,300 *	51.3	225.1	66,400 *b	59.7	229.6	67,200 b	70
75	30.7	207.4	58,500 *	45.8	220.7	62,200 *	54.8	226.4	61,700 b	75
80	21.4	197.2	55,100 *	39.8	215.3	58,400 *	49.7	222.5	56,900 b	80
85				32.9	208.5	55,000 *	44.1	217.8	52,800	85
90				24.3	199.4	51,800 *	37.8	212.1	49,200	90
95				10.7	183.6	48,300	30.5	204.7	45,900	95
100							21.1	194.4	43,000	100
105										105
110										110
115										115
120										120
125										125
130										130
135										135
140										140
145										145



ANSI B30.5

14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	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	48,100 b							85
90	53.8	222.3	44,800 b							90
95	48.5	218.3	41,800 b							95
100	42.8	213.4	39,200	57.3	220.3	35,400 b				100
105	36.4	207.4	36,900	52.3	216.8	33,300 b				105
110	28.7	199.5	34,700	47.0	212.5	31,300				110
115	18.5	188.1	32,700	41.1	207.3	29,600				115
120				34.4	200.9	28,000	50.4	209.6	25,000 b	120
125				26.2	192.3	26,500	44.8	205.1	23,600	125
130				14.5	178.8	25,100	38.7	199.5	22,400	130
135							31.6	192.4	21,300	135
140							22.6	182.6	20,200	140
145							5.8	162.8	19,100	145

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	79,000 *c				55
60	55.6	237.7	69,100 *b	65.0	243.1	73,900 *b				60
65	51.2	234.0	64,900 *	61.0	240.5	69,200 *b	67.7	243.2	72,200 *c	65
70	46.4	229.6	61,100 *	56.8	237.5	64,900 *b	63.8	240.9	66,800 b	70
75	41.2	224.4	57,600 *	52.4	233.9	61,000 *	59.8	238.2	61,300 b	75
80	35.4	218.1	54,300 *	47.8	229.8	57,500 *	55.5	235.1	56,600 b	80
85	28.7	210.1	51,300 *	42.7	224.8	54,200 *	51.0	231.4	52,500	85
90	20.0	199.1	48,600 *	37.1	218.8	51,200 *	46.3	226.9	48,900	90
95				30.7	211.4	48,200	41.1	221.7	45,700	95
100				22.7	201.5	45,200	35.3	215.4	42,800	100
105				10.0	184.5	42,400	28.5	207.3	40,200	105
110							19.7	196.2	37,900	110
115										115
120										120
125										125
130										130
135										135
140										140
145										145
150										150
155										155



ANSI B30.5

14000 S-2



164.0 ft



80.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	47,600 b							85
90	58.9	234.3	44,400 b							90
95	54.6	231.0	41,400							95
100	50.0	227.2	38,800							100
105	45.2	222.6	36,500	57.7	229.0	32,800 b				105
110	39.9	217.2	34,400	53.3	225.5	30,900				110
115	33.9	210.5	32,500	48.7	221.5	29,200				115
120	26.9	202.0	30,700	43.8	216.7	27,600				120
125	17.3	189.7	29,100	38.3	210.9	26,100	51.7	218.4	23,200	125
130				32.1	203.9	24,800	46.9	214.1	22,000	130
135				24.5	194.6	23,500	41.8	209.0	20,900	135
140				13.5	180.1	22,300	36.1	202.9	19,800	140
145							29.5	195.1	18,900	145
150							21.1	184.5	17,900	150
155							5.5	163.3	17,000	155

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	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	71,800 *b			60	
65	56.1	246.4	63,500 *	64.5	251.7	67,500 *b			65	
70	52.2	242.8	59,900 *	60.9	249.2	63,500 *b	66.9	251.9	65,800 *b	70
75	48.0	238.6	56,600 *	57.2	246.2	59,900 *	63.4	249.6	61,100 b	75
80	43.6	233.7	53,600 *	53.3	242.7	56,500 *	59.8	246.9	56,300 b	80
85	38.8	228.0	50,800 *	49.2	238.7	53,400 *	56.0	243.8	52,200	85
90	33.4	221.2	48,100 *	44.9	234.0	50,500 *	52.1	240.1	48,700	90
95	27.0	212.6	45,700 *	40.2	228.6	47,900 *	47.9	235.9	45,500	95
100	18.9	200.8	43,400 *	34.9	222.1	45,100	43.5	231.1	42,600	100
105				28.9	214.1	42,400	38.6	225.3	40,100	105
110				21.4	203.4	39,900	33.2	218.4	37,800	110
115				9.5	185.3	37,700	26.8	209.8	35,700	115
120							18.6	197.8	33,800	120
125										125
130										130
135										135
140										140
145										145
150										150
155										155
160										160
165										165



ANSI B30.5

14000 S-2



164.0 ft

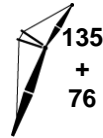


90.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	44,100 b							90
95	59.0	243.0	41,200 b							95
100	55.2	239.7	38,600							100
105	51.2	236.0	36,300							105
110	47.0	231.7	34,200	57.9	237.6	30,600				110
115	42.5	226.6	32,300	54.1	234.3	28,900				115
120	37.5	220.7	30,600	50.1	230.4	27,300				120
125	31.9	213.5	29,000	45.8	225.9	25,900				125
130	25.3	204.3	27,500	41.1	220.6	24,600	52.6	227.2	21,700	130
135	16.3	191.1	26,100	36.0	214.3	23,400	48.5	223.1	20,600	135
140				30.2	206.6	22,200	44.1	218.3	19,600	140
145				23.1	196.7	21,100	39.3	212.7	18,700	145
150				12.7	181.2	20,100	34.0	206.0	17,800	150
155							27.8	197.6	16,900	155
160							19.9	186.3	16,100	160
165							5.2	163.8	15,300	165

14000 S-2

ANSI B30.5

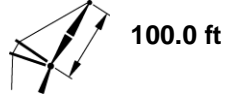
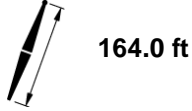


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60				70.3	264.6	68,300 *b				60
65				67.2	262.7	65,400 *b				65
70				64.0	260.4	61,700 *b				70
75				60.8	257.8	58,400 *	66.2	260.7	60,100 *b	75
80				57.5	254.8	55,200 *	63.1	258.3	56,000 b	80
85				54.0	251.4	52,200 *	59.8	255.6	51,900	85
90				50.4	247.6	49,500 *	56.4	252.5	48,300	90
95				46.5	243.1	47,000 *	52.9	248.9	45,100	95
100				42.5	238.0	44,600 *	49.2	244.9	42,300	100
105				38.0	232.1	42,100	45.3	240.3	39,800	105
110				33.1	225.1	39,700	41.1	234.9	37,500	110
115				27.4	216.6	37,500	36.6	228.7	35,400	115
120				20.3	205.2	35,500	31.5	221.3	33,500	120
125				9.0	186.1	33,600	25.4	212.1	31,800	125
130							17.6	199.4	30,200	130
135										135
140										140
145										145
150										150
155										155
160										160
165										165
170										170
175										175



ANSI B30.5

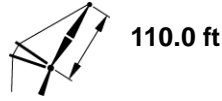
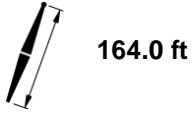
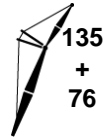
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	40,800 b							95
100	59.1	251.6	38,200							100
105	55.7	248.4	35,900							105
110	52.1	244.8	33,800							110
115	48.4	240.6	31,900							115
120	44.5	235.9	30,200	54.7	243.0	26,900				120
125	40.2	230.4	28,600	51.1	239.2	25,500				125
130	35.5	224.0	27,200	47.3	234.9	24,200				130
135	30.3	216.2	25,800	43.3	229.9	23,000				135
140	24.0	206.5	24,600	38.9	224.2	21,800	49.7	232.0	19,200	140
145	15.5	192.6	23,400	34.1	217.5	20,800	45.9	227.5	18,200	145
150				28.6	209.3	19,800	41.7	222.3	17,400	150
155				21.9	198.7	18,900	37.2	216.2	16,500	155
160				12.1	182.3	18,000	32.2	209.0	15,800	160
165							26.3	200.0	15,000	165
170							18.9	188.0	14,300	170
175							4.9	164.2	13,600	175

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	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	49,700 *			75	
80	53.7	260.3	46,300 *	60.7	266.5	49,000 *	65.7	269.4	50,100 *b	80
85	50.4	256.4	45,500 *	57.7	263.5	48,200 *	62.8	267.0	49,500 *	85
90	46.9	252.0	44,800 *	54.6	260.1	47,400 *	59.8	264.2	48,200	90
95	43.2	247.0	43,200 *	51.3	256.4	45,100 *	56.8	261.1	45,100	95
100	39.3	241.3	41,300 *	47.9	252.1	43,000 *	53.6	257.7	42,300	100
105	34.9	234.7	39,400 *	44.3	247.3	41,000 *	50.3	253.7	39,700	105
110	30.1	226.8	37,700 *	40.4	241.8	39,000 *	46.8	249.3	37,500	110
115	24.4	217.1	36,000 *	36.2	235.5	37,300 *	43.1	244.3	35,400	115
120	17.0	203.9	34,400 *	31.5	228.0	35,500	39.2	238.6	33,500	120
125				26.1	218.9	33,700	34.8	232.0	31,800	125
130				19.4	207.0	32,000	30.0	224.1	30,200	130
135				8.5	186.9	30,400	24.2	214.3	28,700	135
140							16.8	200.9	27,400	140
145										145
150										150
155										155
160										160
165										165
170										170
175										175
180										180
185										185

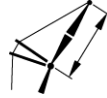


ANSI B30.5

14000 S-2



164.0 ft

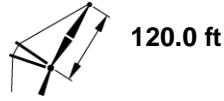
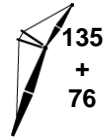


110.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	38,100							100
105	59.2	260.3	35,800							105
110	56.1	257.1	33,800							110
115	52.9	253.6	31,900							115
120	49.5	249.6	30,200							120
125	46.0	245.0	28,600	55.2	251.7	25,400				125
130	42.3	239.9	27,200	52.0	248.0	24,100				130
135	38.3	234.0	25,800	48.6	243.8	22,900				135
140	33.8	227.1	24,600	45.0	239.1	21,800				140
145	28.8	218.9	23,400	41.2	233.8	20,800	50.7	240.9	18,200	145
150	22.8	208.6	22,400	37.1	227.6	19,800	47.3	236.5	17,300	150
155	14.8	193.9	21,300	32.5	220.4	18,900	43.6	231.6	16,500	155
160				27.3	211.7	18,100	39.7	226.0	15,800	160
165				20.9	200.6	17,300	35.4	219.5	15,000	165
170				11.5	183.3	16,500	30.6	211.8	14,400	170
175							25.1	202.3	13,700	175
180							18.0	189.6	13,100	180
185							4.7	164.6	12,500	185

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
50	73.0	286.4	48,700 *b						50	
55	70.4	284.8	47,900 *b						55	
60	67.9	282.9	47,000 *						60	
65	65.3	280.7	46,200 *						65	
70	62.6	278.2	45,500 *	68.6	282.3	47,600 *b			70	
75	59.9	275.5	44,700 *	66.0	280.2	46,900 *			75	
80	57.1	272.4	44,000 *	63.4	277.8	46,300 *	67.8	280.3	47,000 *	80
85	54.2	269.0	43,400 *	60.7	275.1	45,600 *	65.2	278.1	46,500 *	85
90	51.2	265.2	42,700 *	57.9	272.2	45,000 *	62.6	275.6	46,000 *	90
95	48.1	261.0	41,500 *	55.0	268.9	44,000 *	59.8	272.9	44,700 *	95
100	44.8	256.2	40,100 *	52.1	265.2	42,000 *	57.0	269.8	41,900 *	100
105	41.3	250.9	38,700 *	49.0	261.0	40,100 *	54.1	266.4	39,400 *	105
110	37.5	244.8	37,000 *	45.7	256.4	38,300 *	51.1	262.6	37,100 *	110
115	33.4	237.8	35,400 *	42.3	251.3	36,500 *	48.0	258.3	35,100 *	115
120	28.8	229.5	33,900 *	38.6	245.4	35,000 *	44.7	253.5	33,200 *	120
125	23.4	219.2	32,500 *	34.6	238.7	33,400 *	41.2	248.2	31,500 *	125
130	16.3	205.4	31,100 *	30.1	230.8	31,800 *	37.4	242.1	29,900 *	130
135				25.0	221.2	30,200 *	33.3	235.0	28,500 *	135
140				18.5	208.7	28,800 *	28.7	226.7	27,100 *	140
145				8.2	187.6	27,400 *	23.2	216.4	25,800 *	145
150							16.1	202.4	24,600 *	150
155										155
160										160
165										165
170										170
175										175
180										180
185										185
190										190
195										195



ANSI B30.5

14000 S-2



164.0 ft

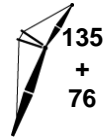


120.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	62.0	271.8	35,400							105
110	59.2	269.0	33,300							110
115	56.4	265.8	31,500							115
120	53.5	262.3	29,800							120
125	50.5	258.4	28,200							125
130	47.3	254.1	26,800	55.6	260.4	23,700				130
135	44.0	249.2	25,500	52.7	256.8	22,500				135
140	40.4	243.6	24,200	49.6	252.7	21,400				140
145	36.6	237.4	23,100	46.4	248.2	20,400				145
150	32.4	230.1	22,000	43.0	243.2	19,400	51.5	249.7	16,900	150
155	27.6	221.4	21,000	39.4	237.5	18,500	48.4	245.5	16,100	155
160	21.9	210.5	20,100	35.4	230.9	17,700	45.1	240.8	15,300	160
165	14.1	195.1	19,200	31.1	223.3	16,900	41.7	235.5	14,600	165
170				26.1	214.1	16,200	37.9	229.5	14,000	170
175				20.0	202.4	15,500	33.9	222.6	13,300	175
180				11.0	184.3	14,800	29.3	214.4	12,800	180
185							24.0	204.5	12,200	185
190							17.2	191.2	11,600	190
195							4.5	165.1	11,100	195

14000 S-2

ANSI B30.5



164.0 ft



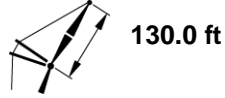
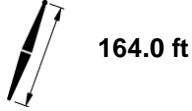
130.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	74.3	296.8	45,900 *b							50
55	72.0	295.3	45,100 *b							55
60	69.7	293.6	44,300 *							60
65	67.3	291.6	43,600 *							65
70	64.9	289.4	42,900 *	70.3	292.9	44,700 *b				70
75	62.4	286.9	42,300 *	68.0	291.0	44,100 *				75
80	59.9	284.2	41,700 *	65.6	288.9	43,500 *				80
85	57.3	281.1	40,900 *	63.1	286.5	43,000 *	67.2	289.0	43,600 *	85
90	54.7	277.7	39,600 *	60.6	283.8	42,400 *	64.8	286.8	43,100 *	90
95	51.9	274.0	38,200 *	58.1	280.8	41,700 *	62.4	284.3	42,700 *	95
100	49.1	269.9	36,900 *	55.4	277.6	40,300 *	59.8	281.5	41,700	100
105	46.1	265.3	35,600 *	52.7	273.9	38,900 *	57.3	278.5	39,100	105
110	42.9	260.2	34,400 *	49.9	269.9	37,600 *	54.6	275.1	36,900	110
115	39.6	254.5	33,200 *	46.9	265.5	36,000 *	51.9	271.4	34,800	115
120	36.0	248.1	32,100 *	43.8	260.6	34,500 *	49.0	267.2	33,000	120
125	32.1	240.7	31,100 *	40.6	255.0	33,000 *	46.0	262.7	31,300	125
130	27.6	232.0	30,200 *	37.0	248.8	31,600	42.9	257.6	29,700	130
135	22.4	221.3	29,400 *	33.2	241.7	30,100	39.5	251.9	28,200	135
140	15.7	206.8	28,400 *	28.9	233.4	28,700	35.9	245.4	26,900	140
145				24.0	223.4	27,300	32.0	237.9	25,700	145
150				17.8	210.3	26,100	27.5	229.2	24,500	150
155				7.9	188.3	24,900	22.3	218.4	23,400	155
160							15.5	203.8	22,400	160
165										165
170										170
175										175
180										180
185										185
190										190
195										195
200										200
205										205



ANSI B30.5

14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	61.8	280.5	33,100							110
115	59.3	277.6	31,200							115
120	56.7	274.5	29,500							120
125	54.0	271.1	28,000							125
130	51.2	267.2	26,500							130
135	48.4	263.0	25,200	56.0	269.1	22,200				135
140	45.3	258.3	24,000	53.2	265.5	21,100				140
145	42.2	253.1	22,900	50.4	261.6	20,100				145
150	38.8	247.2	21,800	47.5	257.2	19,200				150
155	35.1	240.6	20,800	44.5	252.4	18,300	52.2	258.5	15,800	155
160	31.1	232.9	19,900	41.2	247.0	17,500	49.4	254.4	15,100	160
165	26.5	223.8	19,000	37.8	241.0	16,700	46.4	249.9	14,400	165
170	21.0	212.4	18,200	34.0	234.1	16,000	43.3	244.8	13,700	170
175	13.6	196.4	17,400	29.8	226.0	15,300	40.0	239.2	13,100	175
180				25.0	216.4	14,600	36.4	232.9	12,500	180
185				19.2	204.1	14,000	32.5	225.6	12,000	185
190				10.6	185.3	13,300	28.1	217.0	11,400	190
195							23.0	206.6	10,900	195
200							16.5	192.7	10,400	200
205							4.3	165.4	9,900	205

14000 S-2

ANSI B30.5



164.0 ft



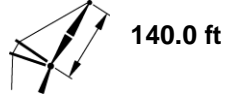
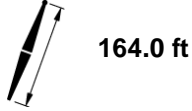
140.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	73.3	305.8	42,300 *b							55
60	71.2	304.2	41,600 *							60
65	69.0	302.4	40,900 *							65
70	66.8	300.4	40,300 *							70
75	64.5	298.1	39,700 *	69.6	301.8	41,100 *				75
80	62.3	295.6	38,800 *	67.4	299.8	40,600 *				80
85	59.9	292.8	37,400 *	65.2	297.6	40,200 *				85
90	57.5	289.8	36,100 *	62.9	295.2	39,400 *	66.7	297.8	40,200 *	90
95	55.1	286.5	34,800 *	60.6	292.5	38,000 *	64.5	295.5	39,800 *	95
100	52.5	282.8	33,400 *	58.2	289.5	36,700 *	62.2	293.0	38,900 *	100
105	49.9	278.8	32,200 *	55.8	286.3	35,400 *	59.9	290.2	37,600 *	105
110	47.2	274.4	31,000 *	53.2	282.7	34,100 *	57.5	287.2	36,300 *	110
115	44.3	269.5	29,800 *	50.6	278.8	32,800 *	55.0	283.8	34,500 *	115
120	41.3	264.1	28,700 *	47.9	274.5	31,600 *	52.5	280.2	32,600 *	120
125	38.1	258.1	27,600 *	45.1	269.7	30,400 *	49.8	276.1	30,900 *	125
130	34.6	251.3	26,600 *	42.2	264.5	29,300 *	47.1	271.7	29,400 *	130
135	30.9	243.5	25,700 *	39.0	258.7	28,200 *	44.2	266.8	27,900 *	135
140	26.6	234.4	24,800 *	35.6	252.1	27,100 *	41.2	261.4	26,600 *	140
145	21.6	223.2	24,000 *	32.0	244.6	26,200 *	38.0	255.4	25,400 *	145
150	15.1	208.1	23,400 *	27.9	235.9	25,300 *	34.6	248.6	24,200 *	150
155				23.1	225.4	24,500 *	30.8	240.7	23,100 *	155
160				17.1	211.8	23,600 *	26.5	231.6	22,100 *	160
165				7.6	189.0	22,600 *	21.5	220.3	21,200 *	165
170							14.9	205.1	20,200 *	170
175										175
180										180
185										185
190										190
195										195
200										200
205										205
210										210
215										215



ANSI B30.5

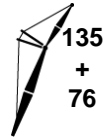
14000 S-2



ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	61.7	289.1	30,800							115
120	59.3	286.3	29,100							120
125	56.9	283.2	27,600							125
130	54.5	279.8	26,100							130
135	51.9	276.0	24,800							135
140	49.3	271.9	23,600	56.2	277.8	20,700				140
145	46.5	267.4	22,500	53.8	274.3	19,700				145
150	43.6	262.4	21,500	51.2	270.4	18,800				150
155	40.6	256.9	20,500	48.5	266.2	17,900				155
160	37.3	250.7	19,600	45.7	261.6	17,100	52.8	267.2	14,600	160
165	33.8	243.7	18,700	42.8	256.4	16,300	50.2	263.2	13,900	165
170	29.9	235.6	17,900	39.7	250.7	15,600	47.5	258.9	13,300	170
175	25.5	226.1	17,100	36.3	244.3	14,900	44.6	254.1	12,700	175
180	20.2	214.2	16,400	32.7	237.0	14,200	41.6	248.7	12,100	180
185	13.1	197.5	15,700	28.7	228.6	13,600	38.5	242.8	11,600	185
190				24.1	218.6	13,000	35.0	236.1	11,000	190
195				18.5	205.7	12,500	31.3	228.4	10,600	195
200				10.2	186.2	11,900	27.1	219.5	10,100	200
205							22.2	208.6	9,600	205
210							15.9	194.1	9,200	210
215							4.1	165.8	8,700	215

14000 S-2

ANSI B30.5

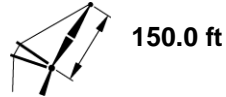
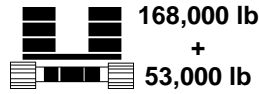
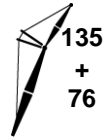


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55	74.5	316.2	39,600 *b						55	
60	72.5	314.7	39,000 *						60	
65	70.5	313.0	38,400 *						65	
70	68.4	311.2	37,700 *						70	
75	66.4	309.1	37,100 *						75	
80	64.2	306.8	35,700 *	69.0	310.6	37,900 *			80	
85	62.1	304.3	34,400 *	66.9	308.5	37,500 *			85	
90	59.9	301.5	33,100 *	64.8	306.3	36,200 *			90	
95	57.7	298.5	31,800 *	62.7	303.8	34,900 *	66.3	306.5	36,900 *	95
100	55.4	295.2	30,600 *	60.5	301.1	33,700 *	64.2	304.2	35,700 *	100
105	53.0	291.5	29,300 *	58.3	298.2	32,400 *	62.1	301.6	34,500 *	105
110	50.6	287.6	28,200 *	56.0	295.0	31,100 *	59.9	298.9	33,200 *	110
115	48.1	283.3	27,000 *	53.7	291.4	29,900 *	57.6	295.8	32,000 *	115
120	45.5	278.6	25,900 *	51.3	287.6	28,700 *	55.3	292.5	30,800 *	120
125	42.7	273.5	24,800 *	48.8	283.4	27,600 *	53.0	288.9	29,600 *	125
130	39.8	267.8	23,800 *	46.2	278.8	26,500 *	50.6	285.0	28,500 *	130
135	36.8	261.5	22,900 *	43.5	273.8	25,400 *	48.0	280.7	27,400 *	135
140	33.4	254.3	21,900 *	40.7	268.3	24,400 *	45.4	276.0	26,300 *	140
145	29.8	246.2	21,100 *	37.6	262.1	23,300 *	42.7	270.8	25,200 *	145
150	25.7	236.7	20,300 *	34.4	255.3	22,400 *	39.8	265.1	24,100 *	150
155	20.9	225.1	19,500 *	30.8	247.4	21,500 *	36.7	258.7	23,100 *	155
160	14.6	209.4	19,000 *	26.9	238.4	20,700 *	33.3	251.6	22,000 *	160
165				22.3	227.5	19,900 *	29.7	243.4	21,100 *	165
170				16.6	213.3	19,300 *	25.6	233.9	20,200 *	170
175				7.3	189.6	18,800 *	20.7	222.2	19,400 *	175
180							14.4	206.4	18,600 *	180
185										185
190										190
195										195
200										200
205										205
210										210
215										215
220										220
225										225



ANSI B30.5

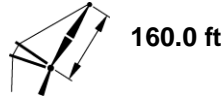
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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										115
120	61.6	297.8	29,000							120
125	59.4	295.0	27,400							125
130	57.1	291.9	26,000							130
135	54.8	288.5	24,700							135
140	52.5	284.8	23,500							140
145	50.0	280.8	22,400	56.5	286.5	19,600				145
150	47.5	276.4	21,400	54.2	283.0	18,700				150
155	44.8	271.6	20,400	51.8	279.2	17,800				155
160	42.1	266.3	19,500	49.3	275.1	17,000				160
165	39.1	260.5	18,600	46.7	270.6	16,200				165
170	36.0	254.0	17,800	44.1	265.7	15,500	50.9	272.1	13,200	170
175	32.6	246.7	17,100	41.2	260.3	14,800	48.4	267.8	12,600	175
180	28.9	238.2	16,400	38.3	254.2	14,200	45.8	263.2	12,000	180
185	24.6	228.3	15,700	35.1	247.5	13,600	43.0	258.1	11,500	185
190	19.5	216.0	15,000	31.6	239.9	13,000	40.2	252.4	11,000	190
195	12.6	198.6	14,400	27.7	231.1	12,400	37.1	246.2	10,500	195
200				23.3	220.7	11,900	33.8	239.2	10,000	200
205				17.8	207.3	11,400	30.2	231.2	9,600	205
210				9.9	187.1	10,900	26.2	221.8	9,100	210
215							21.4	210.5	8,700	215
220							15.4	195.5	8,300	220
225							4.0	166.1	7,900	225

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
60	73.6	325.2	36,300 *							60
65	71.7	323.6	35,700 *							65
70	69.8	321.9	35,200 *							70
75	67.9	319.9	33,800 *							75
80	66.0	317.8	32,500 *	70.4	321.2	35,200 *				80
85	64.0	315.5	31,300 *	68.4	319.3	34,200 *				85
90	62.0	312.9	30,000 *	66.5	317.3	32,900 *				90
95	59.9	310.1	28,700 *	64.5	315.0	31,800 *	67.9	317.3	33,500 *	95
100	57.8	307.1	27,500 *	62.5	312.5	30,500 *	65.9	315.2	32,400 *	100
105	55.7	303.9	26,400 *	60.5	309.8	29,300 *	63.9	312.9	31,200 *	105
110	53.5	300.3	25,200 *	58.4	306.8	28,000 *	61.9	310.3	30,100 *	110
115	51.2	296.5	24,000 *	56.3	303.6	26,900 *	59.9	307.5	28,900 *	115
120	48.9	292.3	23,000 *	54.1	300.2	25,700 *	57.8	304.5	27,700 *	120
125	46.5	287.7	22,000 *	51.9	296.4	24,600 *	55.6	301.2	26,600 *	125
130	44.0	282.7	20,900 *	49.6	292.3	23,500 *	53.4	297.7	25,400 *	130
135	41.3	277.3	19,900 *	47.2	287.9	22,400 *	51.2	293.8	24,300 *	135
140	38.5	271.3	19,100 *	44.7	283.0	21,400 *	48.8	289.6	23,200 *	140
145	35.6	264.7	18,200 *	42.1	277.7	20,400 *	46.4	285.0	22,200 *	145
150	32.3	257.3	17,300 *	39.3	271.9	19,500 *	43.9	280.1	21,200 *	150
155	28.8	248.8	16,500 *	36.4	265.5	18,600 *	41.2	274.6	20,200 *	155
160	24.9	239.0	15,800 *	33.3	258.3	17,700 *	38.5	268.6	19,300 *	160
165	20.2	226.9	15,100 *	29.8	250.2	16,900 *	35.5	262.0	18,400 *	165
170	14.1	210.7	14,500 *	26.0	240.7	16,100 *	32.3	254.6	17,500 *	170
175				21.6	229.4	15,500 *	28.7	246.1	16,700 *	175
180				16.0	214.7	14,800 *	24.8	236.1	16,000 *	180
185				7.1	190.3	14,100 *	20.1	224.0	15,300 *	185
190							13.9	207.6	14,700 *	190
195										195
200										200
205										205
210										210
215										215
220										220



ANSI B30.5

14000 S-2



164.0 ft



160.0 ft

ft	75°			70°			ft
	ft	ft	lb	ft	ft	lb	
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							120
125	61.5	306.5	27,100				125
130	59.4	303.6	25,600				130
135	57.3	300.5	24,300				135
140	55.2	297.2	23,100				140
145	53.0	293.6	22,000				145
150	50.7	289.6	21,000	56.7	295.1	18,300	150
155	48.3	285.4	20,000	54.6	291.7	17,400	155
160	45.9	280.7	19,100	52.3	288.0	16,600	160
165	43.3	275.7	18,300	50.0	284.0	15,800	165
170	40.7	270.1	17,500	47.7	279.6	15,100	170
175	37.8	264.0	16,700	45.2	274.9	14,400	175
180	34.8	257.2	16,000	42.6	269.7	13,800	180
185	31.5	249.5	15,400	39.9	264.0	13,200	185
190	27.9	240.8	14,700	37.0	257.6	12,600	190
195	23.8	230.5	14,100	33.9	250.6	12,100	195
200	18.9	217.7	13,500	30.6	242.7	11,600	200
205	12.2	199.7	13,000	26.8	233.6	11,100	205
210				22.5	222.7	10,600	210
215				17.3	208.9	10,100	215
220				9.6	187.9	9,700	220

14000 S-2

ANSI B30.5

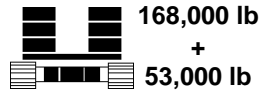
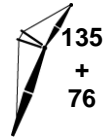


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60	74.6	335.6	33,800 *							60
65	72.8	334.1	33,200 *							65
70	71.1	332.5	32,300 *							70
75	69.3	330.7	31,100 *							75
80	67.5	328.7	29,900 *							80
85	65.6	326.5	28,700 *	69.8	330.0	31,400 *				85
90	63.8	324.2	27,500 *	68.0	328.1	30,300 *				90
95	61.9	321.6	26,300 *	66.1	326.0	29,100 *				95
100	59.9	318.8	25,100 *	64.3	323.7	27,900 *	67.4	326.1	29,700 *	100
105	58.0	315.8	24,000 *	62.4	321.2	26,800 *	65.6	323.9	28,600 *	105
110	56.0	312.5	22,900 *	60.5	318.5	25,600 *	63.7	321.6	27,400 *	110
115	53.9	309.0	21,800 *	58.5	315.5	24,400 *	61.8	319.0	26,300 *	115
120	51.8	305.2	20,700 *	56.5	312.3	23,400 *	59.9	316.2	25,200 *	120
125	49.6	301.1	19,700 *	54.5	308.9	22,300 *	57.9	313.2	24,100 *	125
130	47.4	296.7	18,700 *	52.4	305.2	21,200 *	55.9	309.9	23,000 *	130
135	45.0	291.9	17,800 *	50.2	301.2	20,200 *	53.8	306.4	22,000 *	135
140	42.6	286.7	16,900 *	48.0	296.8	19,200 *	51.7	302.6	20,900 *	140
145	40.0	281.0	16,100 *	45.7	292.1	18,200 *	49.5	298.5	19,900 *	145
150	37.3	274.8	15,200 *	43.3	287.1	17,300 *	47.3	294.1	19,000 *	150
155	34.5	267.9	14,400 *	40.8	281.5	16,400 *	45.0	289.3	18,000 *	155
160	31.4	260.1	13,700 *	38.1	275.4	15,600 *	42.5	284.0	17,000 *	160
165	28.0	251.4	12,700 *	35.3	268.7	14,800 *	40.0	278.3	16,300 *	165
170	24.1	241.1	11,900 *	32.2	261.2	14,000 *	37.3	272.1	15,400 *	170
175	19.6	228.6	11,000 *	28.9	252.8	13,100 *	34.4	265.1	14,600 *	175
180	13.7	211.9	10,200 *	25.2	243.0	12,100 *	31.3	257.4	13,800 *	180
185				20.9	231.3	11,300 *	27.9	248.6	12,900 *	185
190				15.5	216.1	10,500 *	24.0	238.3	11,900 *	190
195				6.9	190.9	9,800 *	19.4	225.7	11,100 *	195
200							13.5	208.8	10,300 *	200
205										205
210										210
215										215
220										220
225										225
230										230

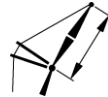


ANSI B30.5

14000 S-2



164.0 ft



170.0 ft

ft	75°			70°			ft
	ft	ft	lb	ft	ft	lb	
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							120
125							125
130	61.4	315.1	25,400				130
135	59.5	312.3	24,100				135
140	57.5	309.2	22,900				140
145	55.5	305.9	21,800				145
150	53.4	302.3	20,700				150
155	51.3	298.5	19,800	56.9	303.8	17,100	155
160	49.1	294.3	18,900	54.9	300.4	16,300	160
165	46.8	289.8	18,000	52.8	296.8	15,500	165
170	44.4	284.9	17,200	50.7	292.8	14,800	170
175	42.0	279.6	16,500	48.4	288.6	14,200	175
180	39.4	273.7	15,800	46.1	284.0	13,500	180
185	36.7	267.4	15,100	43.8	278.9	12,900	185
190	33.7	260.3	14,500	41.3	273.5	12,400	190
195	30.6	252.3	13,600 *	38.6	267.5	11,800	195
200	27.1	243.2	12,700 *	35.9	260.9	11,300	200
205	23.1	232.6	11,800 *	32.9	253.6	10,800	205
210	18.3	219.3	11,000 *	29.6	245.4	10,400	210
215	11.9	200.8	10,200 *	26.0	235.9	9,900	215
220				21.9	224.6	9,500	220
225				16.8	210.4	9,100	225
230				9.3	188.7	8,700	230

14000 S-2

ANSI B30.5



173.9 ft



70.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
34	74.5	249.0	85,000 *d							34
36	72.8	248.4	85,000 *d							36
38	71.1	247.7	84,900 *d							38
40	69.4	247.0	84,800 *c							40
45	64.9	244.9	84,600 *c							45
50	60.3	242.3	79,600 *b							50
55	55.5	239.2	74,300 *b	66.8	244.6	79,800 *c				55
60	50.4	235.4	69,500 *b	62.3	242.2	74,400 *c				60
65	44.8	230.9	65,200 *	57.5	239.4	69,600 *b	65.9	242.7	72,800 *c	65
70	38.7	225.2	61,200 *	52.5	235.9	65,200 *b	61.3	240.2	66,400 b	70
75	31.5	218.1	57,500 *	47.2	231.6	61,100 *	56.5	237.2	60,900 b	75
80	22.5	208.3	54,200 *	41.3	226.5	57,400 *	51.5	233.6	56,200 b	80
85	5.7	188.4	44,900 *	34.7	220.1	54,000 *	46.0	229.2	52,200	85
90				26.6	211.7	50,900 *	40.0	223.9	48,600	90
95				15.1	198.6	47,900 *	33.2	217.1	45,400	95
100							24.7	208.1	42,500	100
105							11.5	192.8	39,900	105
110										110
115										115
120										120
125										125
130										130
135										135
140										140
145										145



ANSI B30.5

14000 S-2



173.9 ft

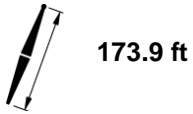


70.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	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	61.1	236.6	47,100 b							85
90	56.3	233.6	43,800 b							90
95	51.2	229.9	40,900 b							95
100	45.8	225.5	38,400							100
105	39.7	220.1	36,100	55.7	228.5	32,100 b				105
110	32.8	213.3	34,000	50.6	224.7	30,300 b				110
115	24.2	204.1	32,100	45.1	220.2	28,600				115
120	10.5	188.1	30,200	39.0	214.6	27,000				120
125				31.9	207.6	25,600	49.5	217.8	22,500 b	125
130				23.0	198.0	24,200	43.9	213.1	21,300	130
135				7.4	179.6	22,900	37.6	207.3	20,200	135
140							30.2	199.9	19,200	140
145							20.7	189.4	18,200	145

14000 S-2

ANSI B30.5

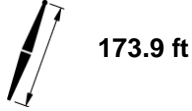


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
38	73.5	258.2	78,600 *d							38
40	72.0	257.6	78,500 *c							40
45	68.2	255.8	78,200 *c							45
50	64.3	253.6	77,100 *b							50
55	60.3	251.0	72,200 *b	69.8	255.4	77,100 *c				55
60	56.1	247.9	67,700 *b	66.0	253.4	72,300 *c				60
65	51.6	244.2	63,700 *	62.0	250.9	67,800 *b				65
70	46.9	239.9	60,000 *	57.8	248.0	63,600 *b	65.2	251.4	66,000 b	70
75	41.8	234.8	56,500 *	53.5	244.6	59,800 *	61.2	248.9	60,600 b	75
80	36.1	228.6	53,400 *	48.9	240.6	56,300 *	57.0	245.9	55,900 b	80
85	29.5	220.9	50,500 *	44.0	235.8	53,100 *	52.6	242.4	51,800	85
90	21.1	210.3	47,700 *	38.5	230.1	50,100 *	47.9	238.2	48,300	90
95	5.3	188.9	39,700 *	32.4	223.1	47,400 *	42.9	233.3	45,100	95
100				24.9	213.9	44,800	37.4	227.4	42,300	100
105				14.1	199.8	42,100	31.0	220.0	39,700	105
110							23.1	210.2	37,400	110
115							10.8	193.8	35,300	115
120										120
125										125
130										130
135										135
140										140
145										145
150										150
155										155



ANSI B30.5

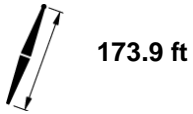
14000 S-2



	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									85	
90	61.0	245.3	43,400 b						90	
95	56.8	242.3	40,500 b						95	
100	52.4	238.7	38,000						100	
105	47.7	234.6	35,700						105	
110	42.7	229.6	33,600	56.3	237.1	29,800 b			110	
115	37.1	223.6	31,800	51.9	233.5	28,100			115	
120	30.6	216.1	30,000	47.1	229.2	26,600			120	
125	22.7	206.2	28,400	42.0	224.2	25,200			125	
130	9.8	189.0	26,900	36.4	218.1	23,900	50.9	226.7	20,900	130
135				29.8	210.4	22,700	46.1	222.3	19,800	135
140				21.5	200.0	21,600	40.9	217.0	18,800	140
145				6.9	180.3	20,400	35.1	210.6	17,900	145
150							28.2	202.5	17,000	150
155							19.4	191.1	16,200	155

14000 S-2

ANSI B30.5

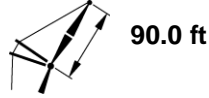
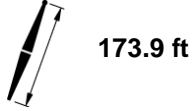


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40	74.1	268.1	72,100 *c							40
45	70.8	266.5	71,800 *c							45
50	67.4	264.6	71,400 *b							50
55	63.9	262.3	70,100 *b							55
60	60.3	259.6	66,100 *b	68.8	264.2	70,000 *c				60
65	56.5	256.6	62,300 *	65.3	262.1	66,000 *b				65
70	52.6	253.0	58,700 *	61.8	259.6	62,100 *b				70
75	48.5	248.9	55,600 *	58.1	256.7	58,600 *b	64.6	260.1	60,300 b	75
80	44.1	244.1	52,600 *	54.3	253.3	55,300 *	61.0	257.6	55,600 b	80
85	39.3	238.5	49,900 *	50.2	249.5	52,300 *	57.3	254.6	51,600	85
90	34.0	231.8	47,300 *	45.9	245.0	49,500 *	53.5	251.1	48,100	90
95	27.7	223.4	44,900 *	41.3	239.7	46,900 *	49.4	247.1	44,900	95
100	19.8	212.1	42,600 *	36.3	233.5	44,500 *	45.0	242.5	42,100	100
105	5.0	189.4	35,500 *	30.5	225.9	42,100	40.3	237.1	39,600	105
110				23.4	216.1	39,700	35.1	230.6	37,300	110
115				13.3	201.0	37,400	29.2	222.7	35,300	115
120							21.8	212.2	33,300	120
125							10.1	194.7	31,600	125
130										130
135										135
140										140
145										145
150										150
155										155
160										160
165										165



ANSI B30.5

14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	60.9	254.0	40,300 b							95
100	57.1	251.0	37,700							100
105	53.3	247.5	35,500							105
110	49.2	243.5	33,400							110
115	44.8	238.8	31,600	56.7	245.8	27,900				115
120	40.1	233.4	29,900	52.8	242.3	26,400				120
125	34.9	226.8	28,300	48.7	238.2	25,000				125
130	28.9	218.8	26,900	44.3	233.5	23,700				130
135	21.3	208.1	25,500	39.5	227.9	22,500	51.9	235.5	19,500	135
140	9.3	189.9	24,200	34.2	221.2	21,400	47.8	231.3	18,600	140
145				28.1	213.0	20,400	43.3	226.4	17,700	145
150				20.3	201.8	19,400	38.5	220.6	16,800	150
155				6.5	180.9	18,400	33.0	213.6	16,000	155
160							26.6	204.9	15,200	160
165							18.2	192.8	14,500	165

14000 S-2

ANSI B30.5

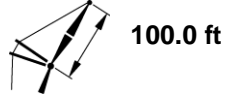
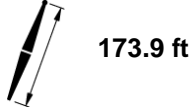
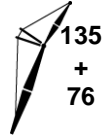


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60				71.0	274.8	66,100 *c				60
65				67.9	273.0	63,800 *b				65
70				64.8	270.8	60,300 *b				70
75				61.6	268.2	57,000 *	67.3	271.1	58,500 *b	75
80				58.3	265.4	54,000 *	64.2	268.8	55,300 b	80
85				54.8	262.1	51,100 *	60.9	266.2	51,200	85
90				51.3	258.3	48,500 *	57.6	263.3	47,700	90
95				47.5	254.0	46,000 *	54.1	259.9	44,500	95
100				43.5	249.1	43,700 *	50.5	256.0	41,800	100
105				39.1	243.4	41,600 *	46.7	251.6	39,300	105
110				34.3	236.7	39,400	42.6	246.5	37,000	110
115				28.9	228.6	37,200	38.2	240.7	35,000	115
120				22.2	218.1	35,200	33.3	233.7	33,100	120
125				12.6	202.2	33,400	27.6	225.2	31,400	125
130							20.6	214.1	29,800	130
135							9.6	195.6	28,200	135
140										140
145										145
150										150
155										155
160										160
165										165
170										170
175										175



ANSI B30.5

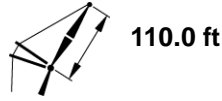
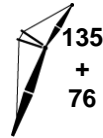
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	60.8	262.6	37,300							100
105	57.4	259.6	35,000							105
110	54.0	256.2	33,000							110
115	50.3	252.3	31,200							115
120	46.5	247.9	29,500	57.0	254.5	25,900				120
125	42.4	242.8	27,900	53.5	251.1	24,500				125
130	38.0	236.9	26,500	49.9	247.1	23,300				130
135	33.0	229.9	25,200	46.0	242.6	22,100				135
140	27.3	221.3	24,000	41.9	237.4	21,000	52.8	244.3	18,100	140
145	20.2	210.0	22,800	37.4	231.4	20,000	49.1	240.2	17,200	145
150	8.8	190.6	21,700	32.4	224.2	19,100	45.2	235.6	16,400	150
155				26.6	215.4	18,200	41.0	230.2	15,600	155
160				19.2	203.6	17,300	36.4	224.0	14,900	160
165				6.2	181.4	16,500	31.3	216.5	14,200	165
170							25.2	207.2	13,500	170
175							17.3	194.4	12,900	175

14000 S-2

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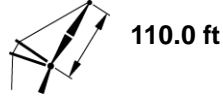
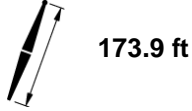


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
45	74.4	287.4	51,600 *c						45	
50	71.6	285.9	50,700 *b						50	
55	68.9	284.1	49,700 *b						55	
60	66.0	282.0	48,800 *b						60	
65	63.2	279.7	48,000 *	70.0	283.7	50,400 *b			65	
70	60.2	277.0	47,100 *	67.2	281.7	49,700 *b			70	
75	57.2	273.9	46,300 *	64.4	279.5	48,900 *			75	
80	54.0	270.5	45,600 *	61.4	276.9	48,200 *	66.7	279.8	49,300 *b	80
85	50.7	266.6	44,800 *	58.4	274.0	47,500 *	63.8	277.5	48,700 *	85
90	47.3	262.3	44,100 *	55.3	270.8	46,300 *	60.8	274.9	47,300 *	90
95	43.6	257.4	42,400 *	52.1	267.1	44,100 *	57.8	271.9	44,500	95
100	39.7	251.7	40,500 *	48.7	263.0	42,000 *	54.7	268.6	41,700	100
105	35.4	245.2	38,700 *	45.1	258.3	40,000 *	51.4	264.8	39,200	105
110	30.6	237.6	37,000 *	41.3	253.0	38,200 *	48.0	260.6	37,000	110
115	25.0	228.1	35,300 *	37.2	246.9	36,400 *	44.4	255.8	34,900	115
120	17.9	215.4	33,700 *	32.7	239.7	34,800 *	40.5	250.3	33,100	120
125	4.5	190.2	28,500 *	27.5	231.1	33,200 *	36.4	244.0	31,400	125
130				21.2	220.0	31,700 *	31.7	236.6	29,800	130
135				12.0	203.2	30,200	26.3	227.6	28,400	135
140							19.7	215.8	27,000	140
145							9.2	196.4	25,700	145
150										150
155										155
160										160
165										165
170										170
175										175
180										180
185										185



ANSI B30.5

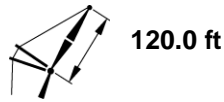
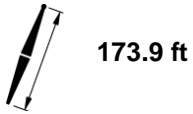
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	60.7	271.3	35,000							105
110	57.7	268.3	32,900							110
115	54.5	265.0	31,100							115
120	51.3	261.2	29,400							120
125	47.8	256.9	27,900	57.3	263.2	24,500				125
130	44.2	252.1	26,500	54.2	259.8	23,200				130
135	40.4	246.6	25,200	50.9	255.9	22,100				135
140	36.1	240.2	24,000	47.4	251.6	21,000				140
145	31.5	232.8	22,900	43.8	246.7	20,000				145
150	26.1	223.7	21,800	39.9	241.1	19,000	50.2	249.1	16,300	150
155	19.3	211.7	20,800	35.6	234.7	18,200	46.7	244.6	15,600	155
160	8.4	191.4	19,800	30.9	227.1	17,300	43.0	239.6	14,800	160
165				25.3	217.7	16,600	39.0	233.9	14,200	165
170				18.3	205.2	15,800	34.7	227.2	13,500	170
175				5.9	181.9	15,100	29.8	219.2	12,900	175
180							24.0	209.4	12,300	180
185							16.5	195.9	11,700	185

14000 S-2

ANSI B30.5

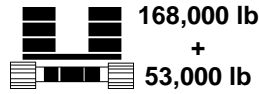
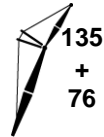


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
50	73.2	296.4	47,800 *b						50	
55	70.7	294.8	47,000 *b						55	
60	68.2	292.9	46,200 *b						60	
65	65.6	290.8	45,500 *						65	
70	62.9	288.3	44,700 *	69.2	292.5	46,800 *b			70	
75	60.2	285.6	44,000 *	66.6	290.5	46,100 *			75	
80	57.4	282.6	43,300 *	64.0	288.2	45,500 *			80	
85	54.5	279.2	42,700 *	61.3	285.6	44,900 *	66.1	288.6	45,700 *	85
90	51.5	275.5	42,100 *	58.6	282.7	44,400 *	63.5	286.2	45,200 *	90
95	48.4	271.3	41,500 *	55.7	279.5	43,000 *	60.8	283.6	43,700 *	95
100	45.1	266.6	39,700 *	52.8	275.9	41,100 *	58.0	280.6	41,300	100
105	41.7	261.3	37,900 *	49.7	271.9	39,200 *	55.1	277.3	38,900	105
110	37.9	255.3	36,300 *	46.5	267.4	37,400 *	52.2	273.6	36,600	110
115	33.9	248.4	34,700 *	43.1	262.3	35,800 *	49.1	269.5	34,600	115
120	29.3	240.2	33,300 *	39.5	256.6	34,200 *	45.8	264.9	32,700	120
125	24.0	230.2	31,800 *	35.6	250.1	32,700 *	42.4	259.8	31,100	125
130	17.2	216.9	30,500 *	31.3	242.6	31,300 *	38.7	253.9	29,500	130
135	4.3	190.6	25,700 *	26.3	233.5	29,900 *	34.8	247.2	28,100	135
140				20.3	221.8	28,600	30.3	239.4	26,700	140
145				11.5	204.3	27,200	25.2	229.9	25,500	145
150							18.8	217.5	24,300	150
155							8.8	197.2	23,200	155
160										160
165										165
170										170
175										175
180										180
185										185
190										190
195										195

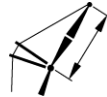


ANSI B30.5

14000 S-2



173.9 ft

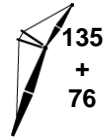


120.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	60.6	280.0	32,500							110
115	57.9	277.0	30,700							115
120	55.0	273.7	29,000							120
125	52.0	270.0	27,500							125
130	48.9	265.8	26,100	57.5	271.9	22,800				130
135	45.7	261.2	24,800	54.7	268.5	21,600				135
140	42.3	256.0	23,600	51.7	264.7	20,600				140
145	38.6	250.2	22,500	48.6	260.6	19,600				145
150	34.6	243.4	21,500	45.3	255.9	18,600				150
155	30.1	235.5	20,500	41.8	250.6	17,800	51.0	257.9	15,100	155
160	24.9	225.9	19,600	38.1	244.7	17,000	47.9	253.6	14,400	160
165	18.5	213.4	18,700	34.1	237.8	16,200	44.6	248.9	13,700	165
170	8.0	192.1	17,900	29.5	229.7	15,500	41.1	243.5	13,100	170
175				24.2	219.9	14,800	37.3	237.3	12,500	175
180				17.5	206.8	14,100	33.1	230.2	11,900	180
185				5.7	182.4	13,500	28.5	221.9	11,400	185
190							23.0	211.5	10,900	190
195							15.8	197.3	10,400	195

14000 S-2

ANSI B30.5



173.9 ft



130.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
50	74.5	306.8	45,000 *b						50	
55	72.2	305.3	44,300 *b						55	
60	69.9	303.6	43,600 *b						60	
65	67.5	301.6	42,900 *						65	
70	65.1	299.5	42,200 *	70.9	303.1	43,900 *b			70	
75	62.7	297.0	41,600 *	68.5	301.3	43,400 *			75	
80	60.2	294.3	41,000 *	66.1	299.2	42,800 *			80	
85	57.6	291.3	40,400 *	63.7	296.9	42,300 *			85	
90	55.0	287.9	39,400 *	61.2	294.2	41,800 *	65.7	297.3	42,400 *	90
95	52.2	284.2	38,100 *	58.7	291.4	41,300 *	63.2	294.9	42,000 *	95
100	49.4	280.2	36,800 *	56.1	288.1	40,100 *	60.7	292.2	40,600 *	100
105	46.4	275.6	35,600 *	53.4	284.6	38,400 *	58.2	289.3	38,600 *	105
110	43.3	270.6	34,400 *	50.6	280.7	36,700 *	55.5	286.0	36,400 *	110
115	40.0	265.0	33,300 *	47.6	276.4	35,200 *	52.8	282.4	34,400 *	115
120	36.4	258.6	32,200 *	44.6	271.6	33,700 *	50.0	278.4	32,500 *	120
125	32.5	251.3	31,200 *	41.4	266.2	32,300 *	47.0	274.0	30,800 *	125
130	28.1	242.8	30,200 *	37.9	260.2	30,900 *	44.0	269.1	29,300 *	130
135	23.0	232.3	29,000 *	34.2	253.3	29,600 *	40.7	263.6	27,800 *	135
140	16.5	218.4	27,800 *	30.0	245.3	28,400 *	37.2	257.4	26,500 *	140
145	4.2	191.0	23,300 *	25.3	235.7	27,100 *	33.4	250.3	25,300 *	145
150				19.5	223.6	25,900 *	29.1	242.1	24,100 *	150
155				11.1	205.3	24,700 *	24.2	232.1	23,100 *	155
160							18.1	219.1	22,100 *	160
165							8.4	197.9	21,100 *	165
170										170
175										175
180										180
185										185
190										190
195										195
200										200
205										205



ANSI B30.5

14000 S-2



173.9 ft

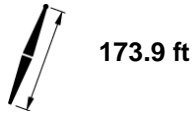


130.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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										110
115	60.6	288.6	30,400							115
120	58.0	285.6	28,800							120
125	55.4	282.4	27,200							125
130	52.7	278.7	25,800							130
135	49.8	274.7	24,600	57.7	280.5	21,300				135
140	46.9	270.3	23,400	55.1	277.2	20,300				140
145	43.8	265.3	22,300	52.3	273.5	19,300				145
150	40.5	259.8	21,200	49.5	269.5	18,400				150
155	37.0	253.6	20,300	46.5	265.0	17,500				155
160	33.2	246.5	19,400	43.4	260.0	16,700	51.8	266.7	14,100	160
165	28.9	238.2	18,500	40.1	254.4	16,000	48.9	262.6	13,500	165
170	23.9	228.1	17,700	36.6	248.1	15,300	45.9	258.0	12,800	170
175	17.7	214.9	17,000	32.7	240.8	14,600	42.7	252.9	12,200	175
180	7.7	192.8	16,200	28.3	232.3	14,000	39.4	247.1	11,700	180
185				23.3	222.0	13,300	35.8	240.6	11,200	185
190				16.9	208.3	12,800	31.8	233.1	10,700	190
195				5.4	182.9	12,200	27.3	224.3	10,200	195
200							22.1	213.5	9,700	200
205							15.2	198.6	9,300	205

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55	73.5	315.8	41,500 *b						55	
60	71.4	314.2	40,900 *b						60	
65	69.2	312.4	40,200 *						65	
70	67.0	310.4	39,600 *						70	
75	64.8	308.2	39,000 *	70.1	312.0	40,500 *			75	
80	62.5	305.7	38,500 *	67.9	310.0	40,000 *			80	
85	60.2	303.0	37,300 *	65.7	307.9	39,500 *			85	
90	57.8	300.0	36,000 *	63.4	305.5	39,000 *	67.5	308.2	39,500 *	90
95	55.3	296.6	34,600 *	61.1	302.9	38,100 *	65.3	306.0	39,100 *	95
100	52.8	293.0	33,400 *	58.8	300.0	36,800 *	63.0	303.6	38,700 *	100
105	50.2	289.0	32,200 *	56.3	296.8	35,500 *	60.7	300.9	37,600 *	105
110	47.5	284.7	31,000 *	53.9	293.4	34,200 *	58.3	297.9	36,000 *	110
115	44.6	279.8	29,900 *	51.3	289.5	33,000 *	55.8	294.7	34,000 *	115
120	41.6	274.5	28,700 *	48.6	285.3	31,800 *	53.3	291.1	32,200 *	120
125	38.4	268.5	27,700 *	45.8	280.7	30,600 *	50.7	287.2	30,500 *	125
130	35.0	261.9	26,700 *	42.9	275.6	29,500 *	48.0	283.0	28,900 *	130
135	31.3	254.2	25,800 *	39.8	269.9	28,400 *	45.2	278.2	27,500 *	135
140	27.1	245.2	24,900 *	36.5	263.5	27,400 *	42.3	273.0	26,200 *	140
145	22.2	234.3	24,100 *	32.9	256.3	26,400 *	39.1	267.2	25,000 *	145
150	15.9	219.8	23,400 *	28.9	247.9	25,500 *	35.8	260.7	23,800 *	150
155	4.0	191.3	21,100 *	24.3	237.9	24,500 *	32.1	253.2	22,800 *	155
160				18.7	225.3	23,400 *	28.0	244.6	21,800 *	160
165				10.7	206.2	22,400 *	23.3	234.2	20,800 *	165
170							17.4	220.7	19,900 *	170
175							8.1	198.6	19,100 *	175
180										180
185										185
190										190
195										195
200										200
205										205
210										210
215										215



ANSI B30.5

14000 S-2



173.9 ft

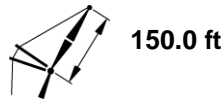
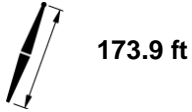


140.0 ft

	75°			70°			65°			
	ft	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									105	
110									110	
115	62.9	300.0	30,000						115	
120	60.6	297.3	28,400						120	
125	58.2	294.3	26,800						125	
130	55.7	291.1	25,500						130	
135	53.2	287.5	24,200						135	
140	50.6	283.6	23,000	57.9	289.2	19,800			140	
145	47.9	279.3	21,900	55.4	285.9	18,900			145	
150	45.1	274.5	20,900	52.9	282.3	18,000			150	
155	42.1	269.3	19,900	50.3	278.3	17,100			155	
160	39.0	263.4	19,000	47.6	274.0	16,300			160	
165	35.6	256.9	18,200	44.8	269.2	15,600	52.4	275.5	13,000	165
170	31.9	249.4	17,400	41.8	263.9	14,900	49.7	271.5	12,400	170
175	27.8	240.7	16,700	38.6	258.0	14,200	47.0	267.0	11,800	175
180	23.0	230.2	15,900	35.2	251.3	13,600	44.1	262.1	11,300	180
185	17.1	216.5	15,300	31.5	243.7	13,000	41.1	256.7	10,700	185
190	7.4	193.5	14,600	27.3	234.8	12,400	37.9	250.6	10,300	190
195				22.4	224.0	11,900	34.4	243.8	9,800	195
200				16.2	209.8	11,400	30.6	235.9	9,300	200
205				5.2	183.4	10,800	26.3	226.7	8,900	205
210							21.3	215.4	8,500	210
215							14.6	199.9	8,100	215

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	74.7	326.2	38,900 *b							55
60	72.7	324.7	38,300 *b							60
65	70.7	323.0	37,700 *							65
70	68.6	321.2	37,100 *							70
75	66.6	319.1	36,600 *							75
80	64.5	316.9	35,500 *	69.5	320.8	37,300 *				80
85	62.3	314.4	34,300 *	67.4	318.8	36,900 *				85
90	60.2	311.6	33,000 *	65.3	316.6	36,200 *				90
95	57.9	308.6	31,800 *	63.2	314.2	34,900 *	67.0	316.9	36,400 *	95
100	55.6	305.3	30,500 *	61.1	311.6	33,700 *	64.9	314.7	35,700 *	100
105	53.3	301.8	29,300 *	58.9	308.7	32,500 *	62.8	312.2	34,500 *	105
110	50.9	297.9	28,200 *	56.6	305.5	31,300 *	60.6	309.5	33,400 *	110
115	48.4	293.6	27,100 *	54.3	302.1	30,100 *	58.4	306.6	32,200 *	115
120	45.8	289.0	26,000 *	51.9	298.3	28,900 *	56.1	303.4	31,100 *	120
125	43.0	283.9	24,900 *	49.4	294.2	27,800 *	53.8	299.9	29,900 *	125
130	40.1	278.2	23,900 *	46.9	289.7	26,700 *	51.4	296.1	28,700 *	130
135	37.1	272.0	22,900 *	44.2	284.8	25,600 *	48.9	291.9	27,400	135
140	33.8	264.9	22,000 *	41.4	279.4	24,600 *	46.3	287.3	26,100	140
145	30.2	256.9	21,200 *	38.4	273.4	23,600 *	43.6	282.3	24,900	145
150	26.1	247.6	20,400 *	35.2	266.7	22,600 *	40.8	276.8	23,800	150
155	21.4	236.2	19,600 *	31.7	259.2	21,700 *	37.8	270.7	22,700	155
160	15.3	221.2	19,000 *	27.9	250.5	20,900 *	34.5	263.8	21,700	160
165	3.9	191.7	18,600 *	23.5	240.1	20,100 *	31.0	256.1	20,800	165
170				18.1	226.9	19,400 *	27.0	247.1	19,900	170
175				10.3	207.1	18,900 *	22.5	236.2	19,100	175
180							16.8	222.2	18,300	180
185							7.9	199.3	17,500	185
190										190
195										195
200										200
205										205
210										210
215										215



ANSI B30.5

14000 S-2



173.9 ft

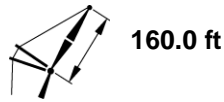
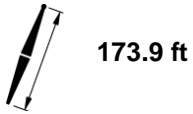


150.0 ft

	75°			70°			
	ft	ft	lb	ft	ft	lb	
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							115
120	62.7	308.6	28,200				120
125	60.5	305.9	26,700				125
130	58.3	303.0	25,300				130
135	56.0	299.7	24,100				135
140	53.7	296.2	22,900				140
145	51.3	292.4	21,800				145
150	48.8	288.2	20,800	55.8	294.6	17,800	150
155	46.2	283.6	19,800	53.4	291.0	17,000	155
160	43.5	278.6	18,900	51.0	287.2	16,200	160
165	40.6	273.0	18,100	48.5	282.9	15,500	165
170	37.6	266.9	17,300	45.9	278.3	14,800	170
175	34.4	260.0	16,600	43.2	273.2	14,100	175
180	30.8	252.2	15,900	40.3	267.6	13,500	180
185	26.9	243.1	15,200	37.2	261.4	12,900	185
190	22.3	232.2	14,600	34.0	254.4	12,400	190
195	16.5	218.0	14,000	30.4	246.4	11,800	195
200	7.2	194.1	13,400	26.3	237.2	11,300	200
205				21.7	226.0	10,800	205
210				15.7	211.2	10,400	210
215				5.1	183.8	9,900	215

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
60	73.8	335.1	35,700 *b						60	
65	71.9	333.6	35,100 *						65	
70	70.0	331.9	34,600 *						70	
75	68.1	330.0	33,600 *						75	
80	66.2	327.9	32,400 *	70.8	331.4	34,700 *			80	
85	64.2	325.5	31,100 *	68.9	329.6	34,100 *			85	
90	62.2	323.0	29,900 *	67.0	327.5	32,900 *			90	
95	60.1	320.3	28,700 *	65.0	325.3	31,700 *			95	
100	58.1	317.3	27,500 *	63.0	322.9	30,600 *	66.6	325.7	32,400 *	100
105	55.9	314.0	26,300 *	61.0	320.2	29,400 *	64.6	323.4	31,300 *	105
110	53.7	310.5	25,200 *	58.9	317.3	28,200 *	62.6	320.9	30,200 *	110
115	51.5	306.7	24,100 *	56.8	314.2	27,000 *	60.6	318.2	29,100 *	115
120	49.1	302.5	23,100 *	54.6	310.8	25,900 *	58.5	315.3	28,000 *	120
125	46.7	298.0	22,000 *	52.4	307.1	24,800 *	56.4	312.1	26,800 *	125
130	44.2	293.1	21,000 *	50.1	303.1	23,700 *	54.2	308.6	25,700 *	130
135	41.6	287.7	20,000 *	47.8	298.7	22,600 *	52.0	304.9	24,700 *	135
140	38.8	281.8	19,100 *	45.3	294.0	21,600 *	49.7	300.8	23,500 *	140
145	35.9	275.3	18,300 *	42.7	288.8	20,600 *	47.3	296.3	22,500 *	145
150	32.7	267.9	17,400 *	40.0	283.1	19,700 *	44.8	291.5	21,500 *	150
155	29.2	259.6	16,600 *	37.1	276.9	18,800 *	42.2	286.2	20,500 *	155
160	25.3	249.9	15,900 *	34.0	269.9	17,900 *	39.4	280.5	19,600 *	160
165	20.7	238.1	15,200 *	30.7	262.0	17,100 *	36.5	274.0	18,700 *	165
170	14.9	222.5	14,600 *	27.0	252.9	16,300 *	33.4	266.9	17,800 *	170
175	3.8	192.0	13,900 *	22.7	242.1	15,600 *	30.0	258.8	17,100 *	175
180				17.5	228.5	15,000 *	26.2	249.4	16,300 *	180
185				10.0	208.0	14,300 *	21.8	238.2	15,600 *	185
190							16.3	223.7	14,900 *	190
195							7.6	200.0	14,300 *	195
200										200
205										205
210										210
215										215
220										220
225										225

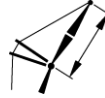


ANSI B30.5

14000 S-2



173.9 ft

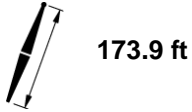


160.0 ft

ft	75°			70°			ft
	ft	ft	lb	ft	ft	lb	
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							120
125	62.5	317.3	26,300				125
130	60.5	314.6	24,900				130
135	58.4	311.6	23,700				135
140	56.3	308.4	22,500				140
145	54.1	305.0	21,400				145
150	51.9	301.2	20,400				150
155	49.5	297.1	19,500	56.0	303.3	16,600	155
160	47.1	292.6	18,600	53.8	299.8	15,800	160
165	44.7	287.8	17,700	51.6	296.0	15,100	165
170	42.0	282.5	17,000	49.3	291.8	14,400	170
175	39.3	276.7	16,200	46.9	287.4	13,700	175
180	36.4	270.2	15,500	44.3	282.5	13,100	180
185	33.2	263.1	14,900	41.7	277.1	12,500	185
190	29.8	254.9	14,300	39.0	271.2	12,000	190
195	26.0	245.5	13,700	36.0	264.7	11,500	195
200	21.5	234.1	13,100	32.8	257.4	11,000	200
205	16.0	219.4	12,600	29.4	249.1	10,500	205
210	6.9	194.7	12,000	25.5	239.5	10,000	210
215				21.0	227.8	9,600	215
220				15.2	212.5	9,200	220
225				4.9	184.3	8,700	225

14000 S-2

ANSI B30.5

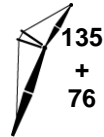


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
65	73.4	344.4	31,300 *						65	
70	71.6	342.8	30,300 *						70	
75	69.8	341.1	29,200 *						75	
80	68.0	339.1	28,000 *						80	
85	66.2	337.0	26,900 *	70.6	340.6	29,500 *			85	
90	64.3	334.7	25,800 *	68.8	338.7	28,500 *			90	
95	62.4	332.2	24,700 *	66.9	336.7	27,400 *			95	
100	60.5	329.5	23,600 *	65.1	334.5	26,300 *			100	
105	58.6	326.6	22,500 *	63.2	332.1	25,300 *	66.6	334.8	27,000 *	105
110	56.6	323.4	21,500 *	61.3	329.5	24,100 *	64.7	332.6	26,000 *	110
115	54.5	320.0	20,500 *	59.4	326.6	23,100 *	62.8	330.1	24,900 *	115
120	52.4	316.3	19,600 *	57.4	323.5	22,100 *	60.9	327.4	23,900 *	120
125	50.3	312.3	18,600 *	55.4	320.2	21,100 *	59.0	324.5	22,900 *	125
130	48.0	307.9	17,700 *	53.3	316.6	20,100 *	57.0	321.4	21,900 *	130
135	45.7	303.2	16,800 *	51.2	312.7	19,200 *	55.0	318.0	20,900 *	135
140	43.3	298.2	16,000 *	49.0	308.6	18,200 *	52.9	314.4	20,000 *	140
145	40.8	292.6	15,200 *	46.7	304.0	17,400 *	50.7	310.5	19,000 *	145
150	38.2	286.6	14,400 *	44.3	299.1	16,400 *	48.5	306.2	18,100 *	150
155	35.4	279.9	13,700 *	41.9	293.8	15,700 *	46.2	301.6	17,300 *	155
160	32.3	272.4	13,000 *	39.3	287.9	14,800 *	43.9	296.6	16,300 *	160
165	29.0	264.0	12,100 *	36.5	281.5	14,200 *	41.4	291.2	15,600 *	165
170	25.3	254.2	11,300 *	33.6	274.4	13,400 *	38.7	285.2	14,800 *	170
175	21.1	242.6	10,500 *	30.4	266.4	12,500 *	36.0	278.7	14,000 *	175
180	15.7	227.5	9,700 *	26.9	257.3	11,700 *	33.0	271.4	13,300 *	180
185	7.2	202.9	9,100 *	22.9	246.5	10,800 *	29.8	263.2	12,400 *	185
190				18.1	233.1	10,100 *	26.2	253.8	11,600 *	190
195				11.5	214.2	9,400 *	22.0	242.6	10,700 *	195
200							17.0	228.5	10,000 *	200
205							9.7	207.4	9,300 *	205
210										210
215										215
220										220
225										225
230										230
235										235

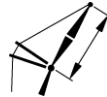


ANSI B30.5

14000 S-2



173.9 ft

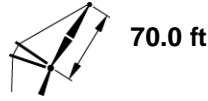
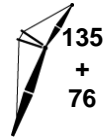


170.0 ft

	75°			70°			
	ft	ft	lb	ft	ft	lb	
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110							110
115							115
120							120
125							125
130	62.8	326.5	24,500 *				130
135	60.8	323.8	23,500				135
140	58.9	320.9	22,300				140
145	56.9	317.8	21,200				145
150	54.9	314.4	20,200				150
155	52.8	310.7	19,200				155
160	50.6	306.8	18,400	56.7	312.6	15,600	160
165	48.4	302.5	17,500	54.6	309.2	14,800	165
170	46.1	297.9	16,800	52.5	305.5	14,100	170
175	43.7	292.9	16,000	50.4	301.6	13,500	175
180	41.2	287.4	15,300	48.2	297.2	12,900	180
185	38.6	281.5	14,700	45.8	292.6	12,300	185
190	35.8	274.9	14,100	43.5	287.5	11,800	190
195	32.8	267.6	13,400 *	40.9	282.0	11,200	195
200	29.6	259.3	12,500 *	38.3	276.0	10,700	200
205	26.0	249.8	11,600 *	35.5	269.3	10,300	205
210	21.8	238.5	10,800 *	32.5	261.9	9,800	210
215	16.7	224.2	10,100 *	29.2	253.5	9,400	215
220	9.2	202.5	9,300 *	25.5	243.9	9,000	220
225				21.3	232.3	8,600	225
230				16.0	217.5	8,200	230
235				7.8	193.8	7,800	235

14000 S-2

ANSI B30.5

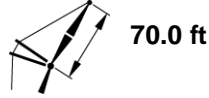


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
34	75.0	259.0	81,900 *d							34
36	73.3	258.4	81,900 *d							36
38	71.6	257.7	81,800 *d							38
40	69.8	257.0	81,700 *c							40
45	65.4	255.0	79,300 *c							45
50	60.8	252.4	74,000 *b							50
55	56.0	249.4	69,200 *b	67.9	254.9	74,800 *c				55
60	50.9	245.7	64,800 *b	63.4	252.6	69,900 *c				60
65	45.4	241.2	60,800 *	58.7	249.9	65,300 *b	67.4	253.2	68,700 *c	65
70	39.3	235.7	57,100 *	53.8	246.5	61,200 *b	62.9	250.9	64,200 *c	70
75	32.3	228.8	53,800 *	48.5	242.5	57,400 *b	58.2	248.0	60,200 b	75
80	23.6	219.4	50,700 *	42.8	237.6	53,900 *	53.2	244.6	55,500 b	80
85	9.0	202.3	47,700 *	36.4	231.6	50,800 *	48.0	240.5	51,500 b	85
90				28.7	223.7	47,800 *	42.2	235.5	48,000	90
95				18.5	212.3	45,100 *	35.6	229.3	44,800	95
100							27.9	221.2	42,000	100
105							17.2	209.2	39,400	105
110										110
115										115
120										120
125										125
130										130
135										135
140										140
145										145
150										150



ANSI B30.5

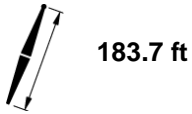
14000 S-2



	75°			70°			65°			
	ft	ft	lb	ft	lb	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									80	
85									85	
90	58.8	244.7	42,900 b						90	
95	53.9	241.4	40,000 b						95	
100	48.6	237.4	37,500 b						100	
105	42.9	232.5	35,300						105	
110	36.5	226.5	33,200	54.1	236.6	29,300 b			110	
115	28.9	218.7	31,400	48.9	232.6	27,600 b			115	
120	18.8	207.4	29,600	43.2	227.8	26,100			120	
125				36.8	221.8	24,700			125	
130				29.3	214.1	23,400	48.6	226.0	20,300 b	130
135				19.3	203.0	22,200	42.9	221.2	19,200	135
140							36.4	215.1	18,300	140
145							28.8	207.3	17,400	145
150							18.7	195.9	16,500	150

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38										38
40										40
45										45
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										110
115										115
120										120
125										125
130										130
135										135
140										140
145										145
150										150
155										155
160										160



ANSI B30.5

14000 S-2



183.7 ft

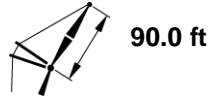
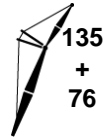


80.0 ft

	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									85	
90									90	
95	58.9	253.4	39,600 b						95	
100	54.7	250.1	37,100 b						100	
105	50.1	246.3	34,900						105	
110	45.3	241.7	32,900						110	
115	40.0	236.3	31,000	54.9	245.3	27,200 b			115	
120	34.1	229.7	29,300	50.3	241.5	25,700			120	
125	27.0	221.2	27,800	45.5	236.9	24,300			125	
130	17.5	209.0	26,300	40.3	231.6	23,100			130	
135				34.3	225.0	21,900	50.1	234.9	18,800	135
140				27.4	216.6	20,800	45.3	230.4	17,800	140
145				18.1	204.7	19,800	40.0	224.9	17,000	145
150							34.0	218.3	16,100	150
155							26.9	209.8	15,300	155
160							17.5	197.5	14,600	160

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40	74.4	278.0	69,800 *d							40
45	71.1	276.5	69,400 *c							45
50	67.7	274.6	69,100 *c							50
55	64.2	272.4	65,400 *b							55
60	60.6	269.8	61,600 *b	69.6	274.4	65,700 *c				60
65	56.9	266.7	58,000 *	66.2	272.4	61,900 *b				65
70	53.0	263.2	54,800 *	62.6	270.0	58,400 *b				70
75	48.9	259.2	51,800 *	59.0	267.2	55,000 *b	65.8	270.6	57,200 *b	75
80	44.5	254.5	49,100 *	55.2	264.0	51,900 *	62.3	268.2	54,000 *b	80
85	39.8	249.0	46,500 *	51.2	260.2	49,100 *	58.6	265.4	50,900 b	85
90	34.5	242.4	44,200 *	47.0	255.9	46,500 *	54.8	262.1	47,400	90
95	28.4	234.2	41,900 *	42.5	250.8	44,000 *	50.8	258.3	44,300	95
100	20.8	223.3	39,800 *	37.5	244.9	41,700 *	46.6	253.9	41,500	100
105	7.9	203.7	37,600 *	31.9	237.7	39,600 *	42.0	248.7	39,100	105
110				25.3	228.5	37,700 *	37.0	242.7	36,800	110
115				16.3	215.3	35,800 *	31.3	235.3	34,800	115
120							24.5	225.9	32,900	120
125							15.1	212.0	31,200	125
130										130
135										135
140										140
145										145
150										150
155										155
160										160
165										165
170										170

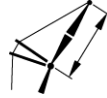


ANSI B30.5

14000 S-2



183.7 ft



90.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	62.7	264.8	39,300 b							95
100	59.1	262.1	36,900 b							100
105	55.3	258.8	34,600							105
110	51.3	255.1	32,600							110
115	47.1	250.8	30,800							115
120	42.6	245.8	29,200	55.4	254.0	25,400				120
125	37.6	239.8	27,600	51.5	250.3	24,100				125
130	32.1	232.6	26,200	47.3	246.0	22,800				130
135	25.4	223.5	24,900	42.8	241.0	21,700				135
140	16.5	210.5	23,700	37.9	235.1	20,600	51.3	243.7	17,600	140
145				32.3	228.0	19,600	47.1	239.4	16,700	145
150				25.8	219.0	18,700	42.5	234.4	15,900	150
155				17.0	206.2	17,800	37.6	228.4	15,100	155
160							32.0	221.2	14,400	160
165							25.4	212.1	13,700	165
170							16.4	199.0	13,100	170

14000 S-2

ANSI B30.5



183.7 ft



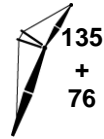
100.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	73.1	287.0	64,200 *c							45
50	70.0	285.3	63,800 *c							50
55	67.0	283.4	63,100 *b							55
60	63.8	281.1	59,600 *b							60
65	60.6	278.4	56,400 *	68.7	283.2	59,800 *b				65
70	57.2	275.4	53,300 *	65.6	281.1	56,500 *b				70
75	53.7	272.0	50,600 *	62.4	278.7	53,500 *b				75
80	50.1	268.1	48,000 *	59.1	275.9	50,600 *	65.2	279.3	52,400 *b	80
85	46.3	263.6	45,500 *	55.7	272.7	47,900 *	62.0	276.9	49,600 *b	85
90	42.1	258.5	43,300 *	52.1	269.0	45,500 *	58.7	274.0	47,000 *	90
95	37.7	252.5	41,200 *	48.4	264.9	43,100 *	55.3	270.8	43,900	95
100	32.7	245.4	39,200 *	44.5	260.1	41,000 *	51.8	267.1	41,200	100
105	27.0	236.7	37,400 *	40.2	254.6	38,900 *	48.0	262.9	38,700	105
110	19.7	225.1	35,600 *	35.5	248.2	37,100 *	44.0	258.0	36,500	110
115	7.5	204.4	33,500 *	30.3	240.4	35,300 *	39.8	252.5	34,500	115
120				24.0	230.7	33,700 *	35.0	245.9	32,600	120
125				15.5	216.7	32,000 *	29.7	238.0	30,900	125
130							23.2	228.0	29,300	130
135							14.3	213.3	27,900	135
140										140
145										145
150										150
155										155
160										160
165										165
170										170
175										175
180										180

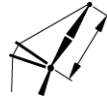


ANSI B30.5

14000 S-2



183.7 ft

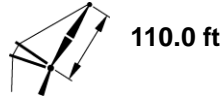
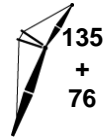


100.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	62.4	273.5	36,400 b							100
105	59.2	270.7	34,200							105
110	55.8	267.5	32,200							110
115	52.2	263.9	30,400							115
120	48.5	259.7	28,800							120
125	44.5	255.0	27,300	55.9	262.7	23,600				125
130	40.3	249.5	25,900	52.4	259.1	22,400				130
135	35.6	243.1	24,600	48.7	254.9	21,300				135
140	30.4	235.4	23,400	44.7	250.2	20,200				140
145	24.1	225.7	22,300	40.5	244.8	19,200	52.2	252.5	16,200	145
150	15.7	211.9	21,200	35.9	238.4	18,300	48.5	248.4	15,400	150
155				30.6	230.8	17,500	44.5	243.6	14,700	155
160				24.4	221.2	16,600	40.3	238.2	14,000	160
165				16.2	207.7	15,900	35.6	231.7	13,300	165
170							30.3	224.0	12,700	170
175							24.1	214.3	12,100	175
180							15.6	200.4	11,500	180

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
45	74.6	297.4	50,600 *c						45	
50	71.9	295.9	49,700 *c						50	
55	69.2	294.1	48,800 *b						55	
60	66.3	292.1	47,900 *b						60	
65	63.5	289.7	47,100 *	70.7	293.9	49,500 *b			65	
70	60.5	287.1	46,300 *	67.9	292.0	48,800 *b			70	
75	57.5	284.1	45,500 *	65.1	289.8	48,100 *b			75	
80	54.3	280.7	44,800 *	62.2	287.3	47,400 *	67.6	290.2	48,400 *b	80
85	51.1	276.9	43,600 *	59.2	284.5	45,700 *	64.8	288.0	47,100 *b	85
90	47.6	272.6	41,600 *	56.1	281.4	43,500 *	61.9	285.5	44,800 *	90
95	44.0	267.7	39,600 *	52.9	277.8	41,400 *	58.9	282.7	42,600 *	95
100	40.1	262.2	37,800 *	49.5	273.8	39,400 *	55.8	279.5	40,500 *	100
105	35.9	255.8	36,100 *	46.0	269.2	37,500 *	52.6	275.9	38,500 *	105
110	31.1	248.2	34,500 *	42.3	264.1	35,800 *	49.2	271.8	36,500 *	110
115	25.7	239.0	32,900 *	38.3	258.2	34,100 *	45.7	267.2	34,400 *	115
120	18.8	226.8	31,500 *	33.8	251.3	32,600 *	41.9	262.0	32,600 *	120
125	7.2	205.1	30,100 *	28.8	243.1	31,200 *	37.8	256.0	30,900 *	125
130				22.8	232.8	29,800 *	33.4	249.0	29,400 *	130
135				14.7	218.1	28,400 *	28.3	240.6	27,900 *	135
140							22.1	230.0	26,600 *	140
145							13.7	214.5	25,300 *	145
150										150
155										155
160										160
165										165
170										170
175										175
180										180
185										185
190										190



ANSI B30.5

14000 S-2



183.7 ft

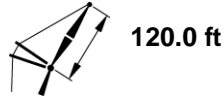
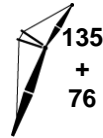


110.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	62.2	282.2	34,100							105
110	59.2	279.4	32,200							110
115	56.1	276.2	30,400							115
120	52.9	272.7	28,700							120
125	49.6	268.6	27,200							125
130	46.1	264.1	25,800	56.3	271.4	22,300				130
135	42.4	259.0	24,600	53.1	267.8	21,200				135
140	38.3	253.1	23,400	49.8	263.8	20,200				140
145	33.9	246.3	22,300	46.3	259.3	19,200				145
150	28.9	238.1	21,300	42.5	254.2	18,300	52.9	261.3	15,400	150
155	23.0	227.8	20,300	38.5	248.4	17,500	49.6	257.3	14,700	155
160	14.9	213.2	19,400	34.1	241.6	16,700	46.1	252.8	14,000	160
165				29.2	233.5	15,900	42.3	247.6	13,300	165
170				23.3	223.3	15,200	38.3	241.7	12,700	170
175				15.4	209.1	14,500	33.9	234.9	12,100	175
180							28.9	226.7	11,600	180
185							22.9	216.4	11,000	185
190							14.9	201.8	10,500	190

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	73.5	306.4	46,900 *c							50
55	71.0	304.8	46,100 *b							55
60	68.4	302.9	45,300 *b							60
65	65.8	300.8	44,600 *							65
70	63.2	298.4	43,900 *	69.8	302.7	45,900 *b				70
75	60.5	295.8	43,200 *	67.3	300.7	45,300 *b				75
80	57.7	292.8	42,600 *	64.6	298.5	44,700 *				80
85	54.8	289.4	41,900 *	62.0	296.0	44,100 *	67.0	299.0	44,900 *	85
90	51.8	285.7	40,500 *	59.2	293.2	42,300 *	64.4	296.7	43,400 *	90
95	48.7	281.5	38,700 *	56.4	290.0	40,300 *	61.7	294.2	41,400 *	95
100	45.5	276.9	37,000 *	53.5	286.5	38,500 *	59.0	291.3	39,500 *	100
105	42.0	271.7	35,400 *	50.5	282.6	36,700 *	56.1	288.2	37,600 *	105
110	38.3	265.8	33,900 *	47.3	278.3	35,100 *	53.2	284.6	35,800 *	110
115	34.3	259.0	32,400 *	44.0	273.4	33,500 *	50.2	280.7	34,100 *	115
120	29.8	251.0	31,000 *	40.4	267.9	32,000 *	47.0	276.2	32,300 *	120
125	24.6	241.2	29,700 *	36.6	261.6	30,600 *	43.6	271.3	30,600 *	125
130	18.0	228.4	28,400 *	32.3	254.3	29,300 *	40.0	265.7	29,100 *	130
135	6.9	205.7	27,200 *	27.6	245.6	28,000 *	36.2	259.3	27,600 *	135
140				21.9	234.7	26,900 *	31.9	251.9	26,300 *	140
145				14.1	219.3	25,600 *	27.0	243.1	25,100 *	145
150							21.2	231.9	23,900 *	150
155							13.1	215.7	22,800 *	155
160										160
165										165
170										170
175										175
180										180
185										185
190										190
195										195
200										200



ANSI B30.5

14000 S-2



183.7 ft



120.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	62.0	290.9	31,700							110
115	59.3	288.0	29,900							115
120	56.5	284.9	28,300							120
125	53.6	281.4	26,800							125
130	50.5	277.5	25,400							130
135	47.4	273.1	24,200	56.6	280.0	20,800				135
140	44.0	268.3	23,000	53.7	276.6	19,700				140
145	40.5	262.8	21,900	50.7	272.7	18,800				145
150	36.6	256.5	20,900	47.5	268.4	17,900				150
155	32.4	249.2	20,000	44.2	263.5	17,100				155
160	27.7	240.6	19,100	40.6	258.0	16,300	50.5	266.1	13,500	160
165	22.0	229.8	18,200	36.8	251.8	15,500	47.3	261.8	12,900	165
170	14.3	214.5	17,400	32.6	244.6	14,800	44.0	256.9	12,300	170
175				27.9	236.0	14,200	40.4	251.4	11,700	175
180				22.3	225.3	13,500	36.6	245.1	11,200	180
185				14.7	210.4	12,900	32.4	237.9	10,700	185
190							27.6	229.2	10,200	190
195							21.9	218.4	9,700	195
200							14.2	203.1	9,200	200

14000 S-2

ANSI B30.5



183.7 ft



130.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
50	74.8	316.8	44,200 *c						50	
55	72.5	315.3	43,400 *b						55	
60	70.2	313.6	42,700 *b						60	
65	67.8	311.7	42,100 *						65	
70	65.4	309.5	41,500 *						70	
75	62.9	307.1	40,800 *	69.1	311.5	42,600 *b			75	
80	60.4	304.4	40,300 *	66.7	309.5	42,000 *			80	
85	57.9	301.4	39,600 *	64.3	307.2	41,500 *			85	
90	55.2	298.1	39,200 *	61.8	304.7	41,100 *	66.5	307.7	41,600 *	90
95	52.5	294.5	37,900 *	59.3	301.8	39,400 *	64.1	305.4	40,300 *	95
100	49.7	290.4	36,200 *	56.7	298.7	37,600 *	61.6	302.9	38,500 *	100
105	46.7	286.0	34,700 *	54.0	295.3	36,000 *	59.0	300.0	36,800 *	105
110	43.6	281.0	33,300 *	51.2	291.5	34,400 *	56.4	296.9	35,200 *	110
115	40.3	275.4	31,900 *	48.4	287.2	32,900 *	53.7	293.4	33,600 *	115
120	36.8	269.1	30,600 *	45.3	282.5	31,500 *	51.0	289.5	32,000 *	120
125	32.9	262.0	29,300 *	42.2	277.3	30,200 *	48.1	285.2	30,400 *	125
130	28.6	253.6	28,100 *	38.8	271.4	28,900 *	45.0	280.5	28,800 *	130
135	23.6	243.4	27,000 *	35.1	264.8	27,800 *	41.8	275.2	27,400 *	135
140	17.3	229.9	25,900 *	31.0	257.1	26,600 *	38.4	269.3	26,100 *	140
145	6.6	206.3	24,700 *	26.5	248.0	25,500 *	34.7	262.5	24,900 *	145
150				21.0	236.6	24,400 *	30.6	254.7	23,800 *	150
155				13.6	220.5	23,400 *	26.0	245.4	22,700 *	155
160							20.4	233.7	21,700 *	160
165							12.6	216.8	20,800 *	165
170										170
175										175
180										180
185										185
190										190
195										195



ANSI B30.5

14000 S-2



183.7 ft

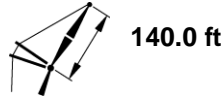
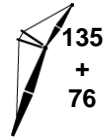


130.0 ft

ft	75°			70°			ft
	ft	ft	lb	ft	ft	lb	
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							110
115	61.9	299.5	29,700				115
120	59.3	296.7	28,000				120
125	56.8	293.6	26,500				125
130	54.1	290.1	25,200				130
135	51.3	286.3	23,900				135
140	48.4	282.1	22,800	56.9	288.7	19,500	140
145	45.4	277.4	21,700	54.2	285.3	18,500	145
150	42.2	272.2	20,700	51.4	281.5	17,600	150
155	38.8	266.4	19,700	48.6	277.3	16,800	155
160	35.2	259.7	18,800	45.5	272.6	16,000	160
165	31.1	252.1	18,000	42.4	267.5	15,300	165
170	26.6	243.0	17,200	39.0	261.6	14,600	170
175	21.1	231.7	16,500	35.3	255.1	13,900	175
180	13.7	215.8	15,800	31.3	247.4	13,300	180
185				26.8	238.4	12,700	185
190				21.4	227.3	12,200	190
195				14.2	211.7	11,600	195

14000 S-2

ANSI B30.5

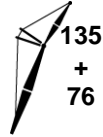


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
55	73.8	325.8	40,700 *b							55
60	71.6	324.2	40,100 *b							60
65	69.5	322.4	39,500 *							65
70	67.2	320.5	38,900 *							70
75	65.0	318.2	38,400 *	70.7	322.2	39,800 *				75
80	62.7	315.8	37,800 *	68.5	320.3	39,300 *				80
85	60.4	313.1	37,100 *	66.3	318.2	38,800 *				85
90	58.0	310.1	35,700 *	64.0	315.9	38,300 *				90
95	55.6	306.8	34,600 *	61.7	313.3	37,900 *	66.0	316.5	38,400 *	95
100	53.1	303.2	33,300 *	59.3	310.5	36,600 *	63.8	314.1	37,200 *	100
105	50.5	299.3	32,100 *	56.9	307.4	35,000 *	61.5	311.5	35,700 *	105
110	47.7	295.0	30,900 *	54.5	304.0	33,500 *	59.1	308.7	34,100 *	110
115	44.9	290.2	29,800 *	51.9	300.2	32,100 *	56.7	305.5	32,700 *	115
120	41.9	284.9	28,800 *	49.3	296.1	30,800 *	54.2	302.1	31,300 *	120
125	38.8	279.0	27,700 *	46.5	291.6	29,500 *	51.6	298.3	30,000 *	125
130	35.4	272.4	26,800 *	43.6	286.6	28,300 *	49.0	294.2	28,500	130
135	31.7	264.9	25,800 *	40.5	281.1	27,200 *	46.2	289.6	27,100	135
140	27.5	256.1	25,000 *	37.3	274.9	26,000 *	43.3	284.5	25,800	140
145	22.7	245.4	24,200 *	33.8	267.9	25,000 *	40.2	279.0	24,600	145
150	16.6	231.4	23,400 *	29.9	259.8	24,000 *	36.9	272.7	23,500	150
155	6.4	206.8	22,300 *	25.5	250.3	23,000 *	33.4	265.6	22,400	155
160				20.2	238.4	22,100 *	29.5	257.4	21,400	160
165				13.1	221.7	21,200 *	25.0	247.7	20,500	165
170							19.6	235.5	19,600	170
175							12.1	217.9	18,800	175
180										180
185										185
190										190
195										195
200										200
205										205



ANSI B30.5

14000 S-2



183.7 ft

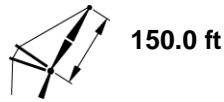


140.0 ft

ft	75°			70°			ft
	ft	ft	lb	ft	ft	lb	
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							115
120	61.7	308.2	27,600				120
125	59.4	305.4	26,100				125
130	57.0	302.3	24,800				130
135	54.5	298.9	23,500				135
140	52.0	295.1	22,400				140
145	49.3	291.0	21,300	57.1	297.4	18,100	145
150	46.6	286.5	20,300	54.6	294.0	17,200	150
155	43.7	281.5	19,400	52.1	290.3	16,400	155
160	40.6	276.0	18,500	49.4	286.2	15,600	160
165	37.4	269.8	17,700	46.7	281.7	14,900	165
170	33.8	262.8	16,900	43.8	276.8	14,200	170
175	30.0	254.8	16,200	40.8	271.3	13,600	175
180	25.6	245.3	15,500	37.5	265.1	13,000	180
185	20.3	233.5	14,800	34.0	258.2	12,400	185
190	13.2	216.9	14,200	30.2	250.2	11,800	190
195				25.8	240.8	11,300	195
200				20.6	229.1	10,800	200
205				13.6	212.9	10,300	205

14000 S-2

ANSI B30.5

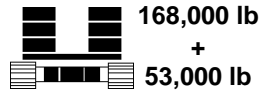
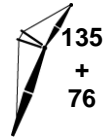


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
55	74.9	336.1	38,100 *b							55
60	72.9	334.7	37,600 *b							60
65	70.9	333.1	37,000 *							65
70	68.8	331.2	36,500 *							70
75	66.8	329.2	35,900 *							75
80	64.7	326.9	35,300 *	70.0	331.0	36,700 *				80
85	62.6	324.5	34,100 *	67.9	329.1	36,200 *				85
90	60.4	321.7	32,800 *	65.8	326.9	35,800 *				90
95	58.2	318.8	31,700 *	63.7	324.6	34,900 *	67.7	327.3	35,700 *	95
100	55.9	315.5	30,500 *	61.6	322.0	33,700 *	65.6	325.2	35,400 *	100
105	53.5	312.0	29,300 *	59.4	319.2	32,600 *	63.5	322.8	34,500 *	105
110	51.1	308.1	28,100 *	57.1	316.1	31,300 *	61.4	320.2	33,200 *	110
115	48.6	303.9	27,100 *	54.8	312.7	30,200 *	59.2	317.3	31,900 *	115
120	46.0	299.3	26,000 *	52.5	309.0	29,000 *	56.9	314.2	30,600 *	120
125	43.3	294.2	24,900 *	50.0	305.0	28,000 *	54.6	310.8	29,300 *	125
130	40.5	288.7	24,000 *	47.5	300.6	26,800 *	52.2	307.1	28,200 *	130
135	37.4	282.5	23,000 *	44.8	295.8	25,800 *	49.8	303.0	27,000	135
140	34.1	275.5	22,100 *	42.1	290.5	24,800 *	47.2	298.6	25,700	140
145	30.6	267.6	21,300 *	39.1	284.7	23,800 *	44.6	293.8	24,500	145
150	26.6	258.5	20,500 *	36.0	278.2	22,900 *	41.8	288.4	23,400	150
155	21.9	247.4	19,700 *	32.6	270.9	22,000 *	38.8	282.5	22,300	155
160	16.1	232.9	19,000 *	28.9	262.5	21,100 *	35.7	276.0	21,400	160
165	6.1	207.4	18,600 *	24.6	252.5	20,300 *	32.2	268.5	20,400	165
170				19.5	240.2	19,600 *	28.5	260.0	19,600	170
175				12.6	222.8	19,000 *	24.1	249.9	18,800	175
180							18.9	237.2	18,000	180
185							11.7	218.9	17,200	185
190										190
195										195
200										200
205										205
210										210
215										215

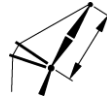


ANSI B30.5

14000 S-2



183.7 ft

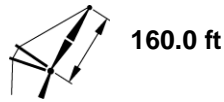
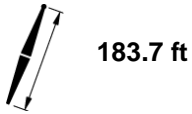


150.0 ft

	75°			70°			
	ft	ft	lb	ft	ft	lb	
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							115
120							120
125	61.6	316.9	26,000				125
130	59.4	314.0	24,700				130
135	57.2	310.9	23,400				135
140	54.9	307.6	22,300				140
145	52.5	303.9	21,200				145
150	50.1	299.9	20,200	57.3	306.1	17,100	150
155	47.5	295.5	19,300	55.0	302.7	16,200	155
160	44.9	290.7	18,400	52.6	299.1	15,500	160
165	42.1	285.5	17,600	50.2	295.1	14,800	165
170	39.2	279.6	16,800	47.6	290.7	14,100	170
175	36.0	273.1	16,100	45.0	285.9	13,500	175
180	32.7	265.8	15,400	42.2	280.7	12,900	180
185	28.9	257.4	14,800	39.3	274.9	12,300	185
190	24.7	247.6	14,100	36.2	268.4	11,800	190
195	19.6	235.3	13,600	32.8	261.2	11,200	195
200	12.8	218.1	13,000	29.1	252.8	10,800	200
205				24.9	243.0	10,300	205
210				19.9	230.9	9,800	210
215				13.2	214.1	9,400	215

14000 S-2

ANSI B30.5

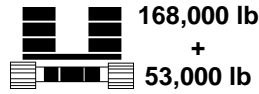
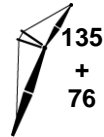


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
60	74.0	345.1	35,000 *b							60
65	72.1	343.6	34,500 *							65
70	70.2	341.9	34,000 *							70
75	68.3	340.0	33,400 *							75
80	66.4	337.9	32,200 *							80
85	64.4	335.6	31,000 *	69.4	339.8	33,600 *				85
90	62.4	333.1	29,800 *	67.4	337.8	32,800 *				90
95	60.4	330.4	28,600 *	65.5	335.6	31,700 *				95
100	58.3	327.4	27,500 *	63.5	333.3	30,600 *	67.2	336.1	32,400 *	100
105	56.1	324.2	26,300 *	61.5	330.7	29,500 *	65.3	333.9	31,300 *	105
110	54.0	320.7	25,200 *	59.4	327.8	28,300 *	63.3	331.5	30,300 *	110
115	51.7	316.9	24,100 *	57.3	324.7	27,200 *	61.3	328.9	29,200 *	115
120	49.4	312.8	23,100 *	55.2	321.4	26,000 *	59.2	326.0	28,200 *	120
125	47.0	308.3	22,100 *	53.0	317.8	24,900 *	57.1	322.9	27,100 *	125
130	44.5	303.5	21,100 *	50.7	313.9	23,900 *	55.0	319.5	26,000 *	130
135	41.9	298.1	20,100 *	48.3	309.6	22,900 *	52.7	315.9	24,900 *	135
140	39.1	292.3	19,200 *	45.9	304.9	21,800 *	50.4	311.9	23,900 *	140
145	36.2	285.8	18,300 *	43.3	299.9	20,900 *	48.1	307.6	22,900 *	145
150	33.0	278.6	17,500 *	40.7	294.3	19,900 *	45.6	302.9	21,800 *	150
155	29.6	270.3	16,700 *	37.8	288.2	19,000 *	43.1	297.8	20,900 *	155
160	25.7	260.8	16,000 *	34.8	281.4	18,200 *	40.4	292.2	19,900 *	160
165	21.2	249.3	15,300 *	31.5	273.7	17,300 *	37.5	286.0	19,000 *	165
170	15.6	234.2	14,700 *	27.9	265.0	16,500 *	34.5	279.1	18,200 *	170
175	5.9	207.9	14,000 *	23.8	254.7	15,800 *	31.2	271.4	17,300 *	175
180				18.9	241.9	15,200 *	27.5	262.5	16,500 *	180
185				12.2	223.9	14,500 *	23.4	252.0	15,900 *	185
190							18.3	238.8	15,200 *	190
195							11.3	220.0	14,500 *	195
200										200
205										205
210										210
215										215
220										220
225										225



ANSI B30.5

14000 S-2



183.7 ft



160.0 ft

ft	75°			70°			ft
	ft	ft	lb	ft	ft	lb	
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							120
125							125
130	61.5	325.5	24,300				130
135	59.5	322.7	23,000				135
140	57.4	319.6	21,900				140
145	55.2	316.3	20,800				145
150	53.0	312.7	19,800				150
155	50.7	308.7	18,900	57.5	314.7	15,800	155
160	48.4	304.5	18,000	55.3	311.4	15,100	160
165	45.9	299.8	17,200	53.1	307.8	14,400	165
170	43.4	294.8	16,500	50.8	303.9	13,700	170
175	40.7	289.2	15,700	48.5	299.7	13,100	175
180	37.9	283.1	15,100	46.0	295.0	12,500	180
185	34.9	276.3	14,400	43.5	290.0	11,900	185
190	31.6	268.7	13,800	40.8	284.5	11,400	190
195	28.0	260.0	13,200	38.0	278.4	10,900	195
200	23.9	249.7	12,700	35.0	271.6	10,400	200
205	19.0	237.0	12,100	31.8	264.1	9,900	205
210	12.4	219.2	11,600	28.2	255.4	9,500	210
215				24.1	245.2	9,100	215
220				19.3	232.6	8,700	220
225				12.8	215.2	8,300	225

14000 S-2

ANSI B30.5



183.7 ft



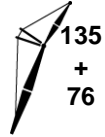
170.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
65	73.6	354.4	30,800 *							65
70	71.8	352.8	30,100 *							70
75	70.0	351.1	29,000 *							75
80	68.2	349.2	27,900 *							80
85	66.4	347.1	26,800 *	71.0	350.8	29,300 *				85
90	64.5	344.8	25,700 *	69.2	349.0	28,500 *				90
95	62.6	342.3	24,700 *	67.4	347.0	27,400 *				95
100	60.7	339.6	23,600 *	65.5	344.8	26,300 *				100
105	58.8	336.7	22,600 *	63.7	342.4	25,300 *	67.2	345.2	27,100 *	105
110	56.8	333.6	21,600 *	61.8	339.9	24,300 *	65.4	343.0	26,100 *	110
115	54.7	330.1	20,600 *	59.9	337.1	23,300 *	63.5	340.6	25,100 *	115
120	52.6	326.5	19,600 *	57.9	334.0	22,300 *	61.6	338.1	24,100 *	120
125	50.5	322.5	18,700 *	55.9	330.8	21,300 *	59.7	335.2	23,200 *	125
130	48.3	318.2	17,800 *	53.8	327.3	20,300 *	57.7	332.2	22,200 *	130
135	46.0	313.6	16,900 *	51.7	323.5	19,400 *	55.7	328.9	21,200 *	135
140	43.6	308.5	16,100 *	49.5	319.4	18,400 *	53.6	325.4	20,200 *	140
145	41.1	303.1	15,200 *	47.3	314.9	17,500 *	51.5	321.5	19,300 *	145
150	38.4	297.0	14,500 *	44.9	310.1	16,700 *	49.3	317.4	18,400 *	150
155	35.7	290.4	13,800 *	42.5	304.9	15,900 *	47.0	312.9	17,500 *	155
160	32.6	283.0	13,100 *	39.9	299.2	15,100 *	44.7	308.1	16,600 *	160
165	29.4	274.7	12,200 *	37.2	292.9	14,300 *	42.2	302.8	15,900 *	165
170	25.7	265.1	11,400 *	34.3	286.0	13,600 *	39.7	297.0	15,000 *	170
175	21.5	253.7	10,500 *	31.2	278.2	12,800 *	36.9	290.7	14,400 *	175
180	16.3	239.1	9,800 *	27.8	269.4	11,900 *	34.0	283.7	13,600 *	180
185	8.5	216.4	9,200 *	23.9	259.0	11,100 *	30.9	275.8	12,800 *	185
190				19.4	246.4	10,300 *	27.4	266.9	11,900 *	190
195				13.4	229.4	9,600 *	23.5	256.4	11,100 *	195
200							18.9	243.5	10,300 *	200
205							12.6	225.7	9,600 *	205
210										210
215										215
220										220

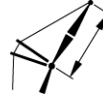


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14000 S-2



183.7 ft

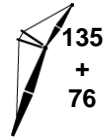


170.0 ft

ft	75°		
	ft	ft	lb
65			
70			
75			
80			
85			
90			
95			
100			
105			
110			
115			
120			
125			
130			
135	61.8	334.7	22,800
140	59.9	331.9	21,600
145	57.9	328.9	20,600
150	55.9	325.7	19,600
155	53.9	322.1	18,700
160	51.7	318.4	17,800
165	49.6	314.2	17,000
170	47.3	309.8	16,200
175	45.0	305.0	15,500
180	42.5	299.8	14,900
185	40.0	294.1	14,200
190	37.3	287.8	13,600
195	34.4	280.9	13,000
200	31.3	273.2	12,500
205	27.9	264.4	12,000
210	24.0	254.1	11,300 *
215	19.5	241.5	10,500 *
220	13.5	224.7	9,700 *

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193.6 ft



70.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36	73.7	268.4	78,800 *d							36
38	72.0	267.7	78,600 *d							38
40	70.3	267.1	78,500 *d							40
45	65.9	265.0	77,200 *c							45
50	61.3	262.6	72,100 *c							50
55	56.5	259.5	67,600 *b	68.9	265.1	72,700 *c				55
60	51.4	255.9	63,400 *b	64.5	263.0	67,900 *c				60
65	46.0	251.5	59,500 *	59.8	260.4	63,600 *b				65
70	40.0	246.2	55,900 *	55.0	257.2	59,600 *b	64.5	261.4	62,400 *c	70
75	33.1	239.4	52,700 *	49.8	253.3	56,000 *b	59.8	258.7	58,500 *b	75
80	24.6	230.4	49,600 *	44.2	248.6	52,600 *	55.0	255.6	54,800 b	80
85	11.4	215.0	46,800 *	38.0	242.9	49,600 *	49.8	251.7	50,800 b	85
90				30.7	235.6	46,700 *	44.2	247.0	47,300	90
95				21.4	225.4	44,000 *	38.0	241.3	44,200	95
100							30.7	234.0	41,500	100
105							21.4	223.8	38,900	105
110										110
115										115
120										120
125										125
130										130
135										135
140										140
145										145
150										150
155										155



ANSI B30.5

14000 S-2



193.6 ft

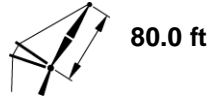
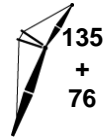


70.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	61.2	255.7	41,800 c							90
95	56.4	252.7	39,100 b							95
100	51.3	249.0	36,600 b							100
105	45.9	244.6	34,400 b							105
110	39.9	239.2	32,400	57.4	248.1	28,200 b				110
115	33.0	232.5	30,600	52.4	244.6	26,600 b				115
120	24.4	223.3	28,900	47.1	240.4	25,100 b				120
125	10.9	207.6	27,300	41.2	235.2	23,800				125
130				34.5	228.8	22,500	53.0	238.4	19,100 b	130
135				26.4	220.3	21,400	47.6	234.2	18,100 b	135
140				14.8	207.0	20,300	41.8	229.1	17,200	140
145							35.3	222.9	16,300	145
150							27.4	214.7	15,500	150
155							16.4	202.2	14,700	155

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	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38	74.3	278.2	73,100 *d							38
40	72.8	277.6	73,000 *d							40
45	69.0	275.9	72,600 *c							45
50	65.1	273.8	69,800 *c							50
55	61.1	271.2	65,600 *b							55
60	57.0	268.2	61,600 *b	67.8	273.9	65,800 *c				60
65	52.6	264.7	58,000 *	63.9	271.7	61,800 *b				65
70	47.9	260.5	54,700 *	59.9	269.0	58,100 *b	67.8	272.3	60,500 *c	70
75	42.9	255.6	51,600 *	55.6	265.9	54,600 *b	63.9	270.1	56,900 *b	75
80	37.3	249.7	48,800 *	51.2	262.1	51,500 *	59.9	267.4	53,600 *b	80
85	30.9	242.3	46,200 *	46.4	257.8	48,600 *	55.6	264.2	50,500 b	85
90	23.0	232.5	43,700 *	41.2	252.6	45,900 *	51.2	260.5	47,000	90
95	10.6	215.9	41,300 *	35.4	246.2	43,400 *	46.4	256.1	43,900	95
100				28.7	238.2	41,100 *	41.2	250.9	41,200	100
105				20.0	227.2	38,900 *	35.4	244.6	38,700	105
110							28.7	236.6	36,500	110
115							20.0	225.6	34,400	115
120										120
125										125
130										130
135										135
140										140
145										145
150										150
155										155
160										160
165										165



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193.6 ft



80.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	61.0	264.4	38,600 b							95
100	56.9	261.4	36,200 b							100
105	52.5	257.8	34,000 b							105
110	47.8	253.6	32,000							110
115	42.8	248.7	30,300	57.8	256.8	26,100 b				115
120	37.2	242.7	28,600	53.4	253.4	24,700 b				120
125	30.8	235.3	27,100	48.8	249.3	23,300				125
130	22.8	225.4	25,700	43.9	244.5	22,100				130
135	10.2	208.6	24,300	38.4	238.8	21,000				135
140				32.2	231.8	20,000	49.3	243.1	16,700	140
145				24.7	222.5	19,000	44.4	238.4	15,900	145
150				13.8	208.2	18,000	39.0	232.8	15,100	150
155							32.9	225.9	14,400	155
160							25.6	217.0	13,700	160
165							15.3	203.6	13,000	165

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	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40										40
45										45
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										110
115										115
120										120
125										125
130										130
135										135
140										140
145										145
150										150
155										155
160										160
165										165
170										170
175										175



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14000 S-2



193.6 ft



90.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	60.9	273.0	35,900 b							100
105	57.2	270.0	33,800 b							105
110	53.3	266.6	31,800							110
115	49.3	262.6	30,000							115
120	44.9	257.9	28,400							120
125	40.2	252.5	26,900	54.2	262.1	23,100				125
130	35.0	246.0	25,500	50.1	258.2	21,900				130
135	29.0	238.0	24,300	45.9	253.7	20,800				135
140	21.5	227.4	23,100	41.2	248.4	19,800				140
145	9.6	209.4	21,900	36.1	242.2	18,800	50.6	252.0	15,600	145
150				30.3	234.6	17,900	46.3	247.6	14,900	150
155				23.3	224.7	17,000	41.7	242.4	14,200	155
160				13.0	209.4	16,200	36.7	236.3	13,500	160
165							31.0	228.8	12,800	165
170							24.1	219.2	12,200	170
175							14.4	204.9	11,600	175

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193.6 ft



100.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	73.4	297.0	52,100 *c							45
50	70.4	295.4	51,100 *c							50
55	67.3	293.4	50,100 *b							55
60	64.1	291.1	49,100 *b							60
65	60.9	288.5	48,200 *b	69.4	293.4	51,000 *c				65
70	57.6	285.6	47,300 *	66.3	291.4	50,200 *b				70
75	54.1	282.2	46,400 *	63.1	289.0	49,400 *b				75
80	50.5	278.3	45,600 *	59.9	286.3	48,000 *	66.3	289.8	49,400 *b	80
85	46.7	273.9	43,500 *	56.5	283.2	45,500 *	63.1	287.4	46,800 *b	85
90	42.6	268.8	41,500 *	53.0	279.7	43,200 *	59.9	284.7	44,400 *	90
95	38.2	263.0	39,500 *	49.3	275.7	41,100 *	56.5	281.6	42,200 *	95
100	33.3	256.0	37,600 *	45.4	271.1	39,100 *	53.0	278.1	40,100 *	100
105	27.6	247.5	35,900 *	41.3	265.8	37,100 *	49.3	274.1	38,100 *	105
110	20.6	236.3	34,200 *	36.7	259.6	35,400 *	45.4	269.5	36,000 *	110
115	9.5	217.7	32,600 *	31.6	252.2	33,700 *	41.3	264.2	34,000 *	115
120				25.6	243.1	32,100 *	36.7	258.0	32,100	120
125				17.9	230.5	30,600 *	31.6	250.6	30,500	125
130							25.6	241.4	28,900	130
135							17.9	228.9	27,500	135
140										140
145										145
150										150
155										155
160										160
165										165
170										170
175										175
180										180
185										185

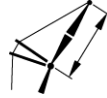


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14000 S-2



193.6 ft



100.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	60.8	281.7	33,300 b							105
110	57.5	278.7	31,400							110
115	54.0	275.3	29,600							115
120	50.4	271.4	28,000							120
125	46.6	267.0	26,500							125
130	42.5	261.9	25,200	54.8	270.8	21,400				130
135	38.1	256.0	23,900	51.2	267.0	20,300				135
140	33.1	249.1	22,700	47.4	262.7	19,300				140
145	27.5	240.5	21,700	43.4	257.8	18,400				145
150	20.4	229.2	20,600	39.0	252.1	17,500	51.6	260.8	14,400	150
155	9.1	210.3	19,600	34.2	245.4	16,700	47.8	256.6	13,700	155
160				28.7	237.2	15,900	43.8	251.7	13,000	160
165				22.1	226.7	15,100	39.5	246.1	12,400	165
170				12.4	210.5	14,400	34.8	239.5	11,800	170
175							29.4	231.5	11,300	175
180							22.8	221.3	10,700	180
185							13.7	206.1	10,200	185

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193.6 ft



110.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
45	74.9	307.4	49,600 *c						45	
50	72.2	305.9	48,700 *c						50	
55	69.4	304.2	47,800 *b						55	
60	66.6	302.1	47,000 *b						60	
65	63.8	299.8	46,100 *						65	
70	60.8	297.2	45,400 *	68.6	302.2	47,700 *b			70	
75	57.8	294.2	44,600 *	65.7	300.1	47,100 *b			75	
80	54.7	290.9	43,900 *	62.9	297.7	46,400 *			80	
85	51.4	287.1	42,600 *	59.9	295.0	44,400 *	65.8	298.5	45,500 *b	85
90	48.0	282.9	40,600 *	56.8	291.9	42,300 *	62.9	296.1	43,300 *	90
95	44.4	278.1	38,700 *	53.7	288.5	40,200 *	59.9	293.4	41,200 *	95
100	40.5	272.6	36,900 *	50.4	284.5	38,300 *	56.8	290.3	39,200 *	100
105	36.3	266.3	35,300 *	46.9	280.1	36,500 *	53.7	286.8	37,400 *	105
110	31.7	258.9	33,700 *	43.2	275.1	34,900 *	50.4	282.9	35,600 *	110
115	26.3	249.9	32,300 *	39.3	269.4	33,200 *	46.9	278.5	33,900 *	115
120	19.6	238.1	30,800 *	34.9	262.8	31,700 *	43.2	273.5	32,100	120
125	9.1	218.5	29,400 *	30.1	255.0	30,300 *	39.3	267.8	30,500	125
130				24.4	245.3	28,900 *	34.9	261.2	28,900	130
135				17.0	232.0	27,600 *	30.1	253.4	27,500	135
140							24.4	243.7	26,200	140
145							17.0	230.4	25,000	145
150										150
155										155
160										160
165										165
170										170
175										175
180										180



ANSI B30.5

14000 S-2



193.6 ft

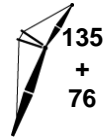


110.0 ft

ft	75°			70°			ft
	ft	ft	lb	ft	ft	lb	
45							45
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	60.8	290.4	31,300				110
115	57.7	287.4	29,600				115
120	54.6	284.0	27,900				120
125	51.3	280.3	26,500				125
130	47.9	276.0	25,100				130
135	44.3	271.2	23,900	55.3	279.5	20,300	135
140	40.4	265.7	22,700	52.0	275.8	19,300	140
145	36.2	259.4	21,700	48.6	271.7	18,300	145
150	31.6	251.9	20,700	45.1	267.0	17,500	150
155	26.2	242.9	19,700	41.3	261.7	16,700	155
160	19.4	231.0	18,800	37.1	255.5	15,900	160
165	8.7	211.0	17,900	32.6	248.4	15,200	165
170				27.4	239.7	14,500	170
175				21.0	228.6	13,800	175
180				11.8	211.6	13,200	180

14000 S-2

ANSI B30.5



193.6 ft



120.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
50	73.7	316.4	45,900 *c						50	
55	71.2	314.8	45,200 *b						55	
60	68.7	313.0	44,400 *b						60	
65	66.1	310.9	43,700 *						65	
70	63.5	308.5	43,000 *	70.4	312.9	44,900 *b			70	
75	60.8	305.9	42,400 *	67.9	311.0	44,300 *b			75	
80	58.0	302.9	41,700 *	65.3	308.8	43,800 *			80	
85	55.1	299.6	41,100 *	62.6	306.4	43,000 *	67.9	309.4	43,900 *b	85
90	52.2	295.9	39,500 *	59.9	303.7	41,100 *	65.3	307.2	41,900 *	90
95	49.1	291.8	37,800 *	57.1	300.6	39,200 *	62.6	304.8	40,000 *	95
100	45.8	287.2	36,100 *	54.2	297.2	37,300 *	59.9	302.0	38,200 *	100
105	42.4	282.1	34,500 *	51.2	293.4	35,700 *	57.1	299.0	36,400 *	105
110	38.7	276.2	33,100 *	48.1	289.1	34,100 *	54.2	295.6	34,700 *	110
115	34.7	269.5	31,700 *	44.8	284.4	32,500 *	51.2	291.8	33,100 *	115
120	30.3	261.7	30,300 *	41.3	279.0	31,100 *	48.1	287.5	31,600 *	120
125	25.1	252.2	29,000 *	37.5	272.9	29,800 *	44.8	282.7	30,100	125
130	18.8	239.8	27,800 *	33.4	265.9	28,400 *	41.3	277.4	28,600	130
135	8.7	219.3	26,500 *	28.8	257.6	27,200 *	37.5	271.3	27,200	135
140				23.3	247.4	26,100 *	33.4	264.3	25,900	140
145				16.3	233.5	24,900 *	28.8	256.0	24,700	145
150							23.3	245.8	23,600	150
155							16.3	231.9	22,500	155
160										160
165										165
170										170
175										175
180										180
185										185
190										190



ANSI B30.5

14000 S-2



193.6 ft

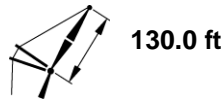


120.0 ft

ft	75°			70°			ft
	ft	ft	lb	ft	ft	lb	
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							110
115	60.7	299.0	29,100				115
120	57.9	296.0	27,500				120
125	55.1	292.7	26,100				125
130	52.1	289.0	24,700				130
135	49.0	284.9	23,500				135
140	45.8	280.3	22,400	55.7	288.2	18,800	140
145	42.3	275.2	21,300	52.7	284.6	17,900	145
150	38.6	269.3	20,300	49.7	280.6	17,000	150
155	34.6	262.6	19,400	46.4	276.1	16,200	155
160	30.2	254.7	18,500	43.1	271.0	15,500	160
165	25.0	245.1	17,700	39.4	265.3	14,800	165
170	18.6	232.7	16,900	35.5	258.8	14,100	170
175	8.3	211.8	16,100	31.2	251.2	13,500	175
180				26.2	242.1	12,900	180
185				20.1	230.4	12,300	185
190				11.3	212.6	11,700	190

14000 S-2

ANSI B30.5

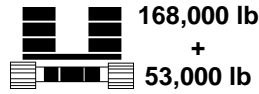
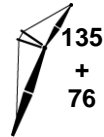


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55	72.7	325.3	42,600 *b						55	
60	70.4	323.6	41,900 *b						60	
65	68.0	321.7	41,300 *						65	
70	65.6	319.6	40,600 *						70	
75	63.2	317.2	40,000 *	69.7	321.7	41,700 *b			75	
80	60.7	314.5	39,400 *	67.3	319.8	41,100 *			80	
85	58.1	311.6	38,900 *	64.9	317.5	40,700 *			85	
90	55.5	308.3	38,400 *	62.4	315.1	39,900 *	67.3	318.1	40,600 *	90
95	52.8	304.7	37,000 *	59.9	312.3	38,200 *	64.9	315.9	38,900 *	95
100	50.0	300.7	35,400 *	57.3	309.3	36,500 *	62.4	313.5	37,200 *	100
105	47.0	296.3	33,900 *	54.7	305.9	34,900 *	59.9	310.7	35,600 *	105
110	43.9	291.4	32,400 *	51.9	302.2	33,400 *	57.3	307.7	34,000 *	110
115	40.7	285.9	31,100 *	49.1	298.0	32,000 *	54.7	304.3	32,500 *	115
120	37.1	279.7	29,900 *	46.1	293.5	30,600 *	51.9	300.6	31,000 *	120
125	33.3	272.6	28,600 *	42.9	288.4	29,300 *	49.1	296.4	29,700 *	125
130	29.1	264.3	27,500 *	39.6	282.7	28,100 *	46.1	291.9	28,400	130
135	24.1	254.4	26,400 *	36.0	276.2	26,900 *	42.9	286.8	27,000	135
140	18.0	241.4	25,300 *	32.1	268.8	25,800 *	39.6	281.1	25,700	140
145	8.3	220.0	24,200 *	27.6	260.1	24,700 *	36.0	274.6	24,500	145
150				22.4	249.4	23,700 *	32.1	267.2	23,400	150
155				15.7	234.9	22,700 *	27.6	258.5	22,300	155
160							22.4	247.8	21,400	160
165							15.7	233.3	20,400	165
170										170
175										175
180										180
185										185
190										190
195										195
200										200



ANSI B30.5

14000 S-2



193.6 ft

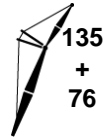


130.0 ft

ft	75°			70°			ft
	ft	ft	lb	ft	ft	lb	
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							115
120	60.6	307.7	27,200				120
125	58.1	304.7	25,800				125
130	55.4	301.5	24,500				130
135	52.7	297.8	23,200				135
140	49.9	293.8	22,100				140
145	47.0	289.4	21,000	56.0	296.9	17,600	145
150	43.9	284.5	20,100	53.3	293.4	16,800	150
155	40.6	279.0	19,100	50.5	289.4	16,000	155
160	37.1	272.7	18,300	47.6	285.1	15,200	160
165	33.2	265.6	17,500	44.5	280.3	14,500	165
170	29.0	257.4	16,700	41.3	274.9	13,900	170
175	24.0	247.3	16,000	37.8	268.8	13,200	175
180	17.9	234.3	15,300	34.1	261.9	12,600	180
185	8.0	212.5	14,600	29.9	253.9	12,100	185
190				25.1	244.3	11,500	190
195				19.3	232.1	11,000	195
200				10.8	213.5	10,500	200

14000 S-2

ANSI B30.5



193.6 ft



140.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	74.0	335.7	38,600 *b							55
60	71.8	334.2	38,400 *b							60
65	69.7	332.5	38,200 *							65
70	67.5	330.5	38,000 *							70
75	65.2	328.3	37,600 *							75
80	63.0	325.9	37,000 *	69.0	330.5	38,500 *				80
85	60.6	323.2	36,500 *	66.8	328.5	38,000 *				85
90	58.3	320.2	35,600 *	64.5	326.2	37,500 *				90
95	55.8	317.0	34,300 *	62.3	323.7	36,900 *	66.8	326.9	37,400 *	95
100	53.3	313.5	33,200 *	59.9	321.0	35,400 *	64.5	324.6	35,900 *	100
105	50.7	309.5	32,000 *	57.5	317.9	33,900 *	62.3	322.1	34,400 *	105
110	48.0	305.3	30,900 *	55.1	314.6	32,500 *	59.9	319.4	32,900 *	110
115	45.2	300.5	29,800 *	52.5	310.9	31,100 *	57.5	316.3	31,500 *	115
120	42.3	295.3	28,700 *	49.9	306.9	29,800 *	55.1	313.0	30,200 *	120
125	39.1	289.5	27,800 *	47.2	302.5	28,600 *	52.5	309.3	28,900 *	125
130	35.7	283.0	26,800 *	44.3	297.6	27,400 *	49.9	305.3	27,700 *	130
135	32.1	275.5	25,800 *	41.3	292.2	26,300 *	47.2	300.9	26,500 *	135
140	28.0	266.9	24,800 *	38.1	286.2	25,200 *	44.3	296.0	25,400 *	140
145	23.3	256.5	23,900 *	34.6	279.4	24,200 *	41.3	290.6	24,200 *	145
150	17.4	242.9	22,900 *	30.9	271.6	23,200 *	38.1	284.6	23,100 *	150
155	8.0	220.7	21,900 *	26.6	262.5	22,300 *	34.6	277.8	22,000 *	155
160				21.6	251.4	21,400 *	30.9	270.0	21,100 *	160
165				15.1	236.3	20,500 *	26.6	260.9	20,200 *	165
170							21.6	249.7	19,300 *	170
175							15.1	234.7	18,500 *	175
180										180
185										185
190										190
195										195
200										200
205										205
210										210



ANSI B30.5

14000 S-2



193.6 ft

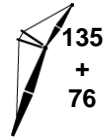


140.0 ft

	75°			70°			
	ft	ft	lb	ft	ft	lb	
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							115
120	62.9	319.0	26,800				120
125	60.6	316.3	25,400				125
130	58.2	313.4	24,000				130
135	55.8	310.1	22,800				135
140	53.3	306.6	21,700				140
145	50.7	302.7	20,600				145
150	48.0	298.4	19,700	56.3	305.6	16,300	150
155	45.2	293.6	18,800	53.8	302.1	15,500	155
160	42.2	288.4	17,900	51.2	298.2	14,800	160
165	39.0	282.6	17,100	48.5	294.0	14,100	165
170	35.7	276.0	16,400	45.8	289.4	13,400	170
175	32.0	268.6	15,600	42.8	284.3	12,800	175
180	27.9	259.9	15,000	39.7	278.6	12,300	180
185	23.1	249.4	14,300	36.4	272.2	11,700	185
190	17.2	235.8	13,700	32.8	264.9	11,200	190
195	7.7	213.2	13,100	28.8	256.6	10,700	195
200				24.2	246.5	10,200	200
205				18.6	233.8	9,700	205
210				10.4	214.5	9,300	210

14000 S-2

ANSI B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60	73.1	344.7	36,900 *b							60
65	71.1	343.1	36,300 *							65
70	69.1	341.3	35,800 *							70
75	67.0	339.2	35,200 *							75
80	64.9	337.0	34,800 *	70.5	341.2	36,000 *				80
85	62.8	334.5	33,800 *	68.4	339.3	35,500 *				85
90	60.6	331.9	32,700 *	66.3	337.2	35,100 *				90
95	58.4	328.9	31,500 *	64.2	334.9	34,700 *				95
100	56.1	325.7	30,400 *	62.1	332.4	33,600 *	66.3	335.6	34,600 *	100
105	53.8	322.2	29,200 *	59.9	329.6	32,500 *	64.2	333.3	33,300 *	105
110	51.4	318.4	28,100 *	57.7	326.6	31,400 *	62.1	330.8	32,000 *	110
115	48.9	314.2	27,000 *	55.4	323.3	30,200 *	59.9	328.0	30,700 *	115
120	46.3	309.6	26,000 *	53.0	319.7	29,200 *	57.7	325.0	29,500 *	120
125	43.6	304.6	25,000 *	50.6	315.8	28,000 *	55.4	321.7	28,300 *	125
130	40.8	299.1	24,000 *	48.1	311.5	26,900 *	53.0	318.1	27,100 *	130
135	37.7	293.0	23,100 *	45.5	306.8	25,800 *	50.6	314.2	26,100 *	135
140	34.5	286.1	22,200 *	42.7	301.6	24,900 *	48.1	309.9	25,000 *	140
145	31.0	278.3	21,300 *	39.8	295.9	23,900 *	45.5	305.2	24,000 *	145
150	27.0	269.3	20,500 *	36.8	289.6	22,900 *	42.7	300.0	23,000 *	150
155	22.5	258.5	19,800 *	33.4	282.5	22,000 *	39.8	294.3	22,000 *	155
160	16.8	244.4	19,100 *	29.8	274.4	21,200 *	36.8	288.0	21,000 *	160
165	7.8	221.4	18,700 *	25.7	264.9	20,300 *	33.4	280.9	20,100 *	165
170				20.8	253.2	19,500 *	29.8	272.7	19,200 *	170
175				14.6	237.6	18,800 *	25.7	263.2	18,400 *	175
180							20.9	251.6	17,700 *	180
185							14.6	236.0	16,900 *	185
190										190
195										195
200										200
205										205
210										210
215										215
220										220



ANSI B30.5

14000 S-2



193.6 ft



150.0 ft

ft	75°			70°			ft
	ft	ft	lb	ft	ft	lb	
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							120
125	62.7	327.7	25,200				125
130	60.6	325.0	23,900				130
135	58.3	322.0	22,700				135
140	56.1	318.8	21,600				140
145	53.7	315.3	20,500				145
150	51.3	311.5	19,600				150
155	48.8	307.3	18,700	56.5	314.3	15,400	155
160	46.2	302.7	17,800	54.2	310.8	14,700	160
165	43.5	297.7	17,000	51.8	307.0	14,000	165
170	40.7	292.2	16,300	49.4	302.9	13,300	170
175	37.7	286.0	15,600	46.8	298.5	12,700	175
180	34.4	279.2	14,900	44.1	293.5	12,200	180
185	30.9	271.4	14,300	41.3	288.1	11,600	185
190	26.9	262.3	13,700	38.3	282.1	11,100	190
195	22.4	251.4	13,100	35.1	275.4	10,600	195
200	16.6	237.3	12,500	31.7	267.8	10,100	200
205	7.5	213.9	12,000	27.8	259.1	9,700	205
210				23.4	248.6	9,200	210
215				18.0	235.4	8,800	215
220				10.1	215.4	8,400	220

14000 S-2

ANSI B30.5



193.6 ft



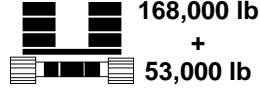
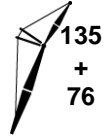
160.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60	74.2	355.1	34,100 *b							60
65	72.3	353.6	33,500 *							65
70	70.4	351.9	33,100 *							70
75	68.5	350.0	32,500 *							75
80	66.6	348.0	31,900 *							80
85	64.6	345.7	30,800 *	69.8	350.0	32,900 *				85
90	62.6	343.2	29,600 *	67.9	348.1	32,600 *				90
95	60.6	340.5	28,500 *	66.0	346.0	31,600 *				95
100	58.5	337.6	27,400 *	64.0	343.6	30,500 *	67.9	346.5	31,300 *	100
105	56.4	334.4	26,300 *	62.0	341.1	29,400 *	66.0	344.4	31,100 *	105
110	54.2	330.9	25,300 *	59.9	338.3	28,300 *	64.0	342.0	30,300 *	110
115	51.9	327.2	24,200 *	57.8	335.3	27,300 *	62.0	339.5	29,300 *	115
120	49.6	323.1	23,100 *	55.7	332.0	26,200 *	59.9	336.7	28,300 *	120
125	47.2	318.6	22,100 *	53.5	328.5	25,100 *	57.8	333.7	27,200 *	125
130	44.8	313.8	21,200 *	51.2	324.6	24,100 *	55.7	330.4	26,200 *	130
135	42.1	308.5	20,200 *	48.9	320.4	23,000 *	53.5	326.8	25,200 *	135
140	39.4	302.7	19,300 *	46.5	315.9	22,000 *	51.2	323.0	24,100 *	140
145	36.5	296.3	18,400 *	44.0	310.9	21,100 *	48.9	318.8	23,100 *	145
150	33.4	289.2	17,600 *	41.3	305.5	20,100 *	46.5	314.2	22,100 *	150
155	30.0	281.1	16,800 *	38.5	299.5	19,200 *	44.0	309.3	21,200 *	155
160	26.1	271.7	16,100 *	35.5	292.9	18,300 *	41.3	303.9	20,300 *	160
165	21.7	260.4	15,400 *	32.3	285.4	17,500 *	38.5	297.9	19,300 *	165
170	16.2	245.9	14,700 *	28.8	277.0	16,700 *	35.6	291.2	18,500 *	170
175	7.5	222.1	14,100 *	24.9	267.1	16,000 *	32.3	283.8	17,600 *	175
180				20.2	255.0	15,300 *	28.8	275.4	16,900 *	180
185				14.1	238.8	14,800 *	24.9	265.5	16,100 *	185
190							20.2	253.4	15,400 *	190
195							14.1	237.2	14,800 *	195
200										200
205										205
210										210
215										215

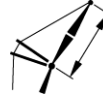


ANSI B30.5

14000 S-2



193.6 ft



160.0 ft

ft	75°		
	ft	ft	lb
60			
65			
70			
75			
80			
85			
90			
95			
100			
105			
110			
115			
120			
125			
130	62.6	336.4	23,500
135	60.5	333.7	22,300
140	58.4	330.7	21,200
145	56.3	327.5	20,100
150	54.1	324.0	19,200
155	51.9	320.3	18,300
160	49.6	316.2	17,400
165	47.2	311.7	16,600
170	44.7	306.9	15,900
175	42.1	301.6	15,200
180	39.3	295.8	14,500
185	36.4	289.4	13,900
190	33.3	282.2	13,300
195	29.9	274.1	12,800
200	26.1	264.7	12,200
205	21.6	253.4	11,700
210	16.1	238.7	11,200
215	7.2	214.5	10,700

14000 S-2

ANSI B30.5

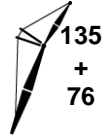


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
65	73.7	364.4	30,200 *							65
70	72.0	362.8	29,800 *							70
75	70.2	361.1	28,800 *							75
80	68.4	359.2	27,700 *							80
85	66.6	357.1	26,700 *							85
90	64.7	354.9	25,600 *	69.6	359.2	28,200 *				90
95	62.8	352.4	24,600 *	67.8	357.3	27,400 *				95
100	60.9	349.7	23,600 *	66.0	355.1	26,400 *				100
105	59.0	346.9	22,500 *	64.1	352.8	25,400 *	67.8	355.6	26,800 *	105
110	57.0	343.7	21,600 *	62.2	350.3	24,400 *	66.0	353.5	26,200 *	110
115	55.0	340.3	20,600 *	60.3	347.5	23,400 *	64.1	351.2	25,200 *	115
120	52.9	336.7	19,700 *	58.4	344.6	22,400 *	62.2	348.7	24,300 *	120
125	50.7	332.8	18,800 *	56.4	341.4	21,400 *	60.3	345.9	23,400 *	125
130	48.5	328.5	17,900 *	54.3	337.9	20,500 *	58.4	343.0	22,400 *	130
135	46.2	323.9	17,000 *	52.2	334.2	19,500 *	56.4	339.7	21,400 *	135
140	43.8	318.9	16,200 *	50.0	330.1	18,600 *	54.3	336.3	20,500 *	140
145	41.3	313.5	15,300 *	47.8	325.8	17,800 *	52.2	332.6	19,600 *	145
150	38.7	307.5	14,600 *	45.5	321.1	16,900 *	50.0	328.5	18,700 *	150
155	35.9	301.0	13,900 *	43.1	315.9	16,100 *	47.8	324.2	17,800 *	155
160	33.0	293.7	13,200 *	40.5	310.4	15,300 *	45.5	319.5	16,900 *	160
165	29.7	285.5	12,400 *	37.9	304.2	14,500 *	43.1	314.3	16,100 *	165
170	26.1	276.0	11,500 *	35.0	297.5	13,800 *	40.5	308.7	15,400 *	170
175	22.0	264.9	10,700 *	32.0	289.9	13,000 *	37.9	302.6	14,600 *	175
180	16.9	250.7	10,000 *	28.7	281.4	12,100 *	35.0	295.9	13,900 *	180
185	9.6	229.5	9,300 *	24.9	271.5	11,300 *	32.0	288.3	13,200 *	185
190				20.6	259.5	10,500 *	28.7	279.7	12,200 *	190
195				15.0	243.9	9,800 *	24.9	269.9	11,400 *	195
200				5.6	216.5	9,200 *	20.6	257.9	10,600 *	200
205							15.0	242.4	9,800 *	205
210							5.7	215.0	9,200 *	210
215										215
220										220
225										225



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14000 S-2



193.6 ft



170.0 ft

ft	75°		
	ft	ft	lb
65			
70			
75			
80			
85			
90			
95			
100			
105			
110			
115			
120			
125			
130			
135	62.8	345.6	22,100
140	60.9	342.9	20,900
145	58.9	340.0	19,900
150	56.9	336.9	18,900
155	54.9	333.5	18,000
160	52.8	329.8	17,200
165	50.7	325.9	16,400
170	48.5	321.6	15,700
175	46.2	317.0	15,000
180	43.8	312.0	14,300
185	41.3	306.6	13,700
190	38.7	300.6	13,100
195	35.9	294.0	12,600
200	32.9	286.7	12,000
205	29.7	278.5	11,500
210	26.1	269.0	11,000
215	21.9	257.8	10,600
220	16.8	243.6	10,100
225	9.4	222.1	9,400 *