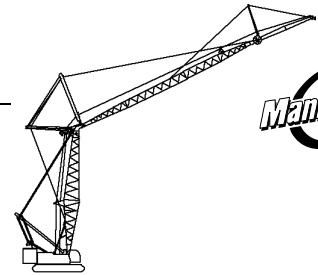


Liftcrane Fixed Jib Capacities

Fixed Jib No. 138 at 3 Degree Offset Angle on
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, luffing jib angles, fixed jib lengths, and fixed 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 (*).

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.

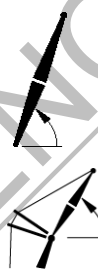
Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom, luffing jib, and fixed jib point sheaves is considered part of fixed jib load. Boom, luffing jib and fixed jib are not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity 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 fixed jib assembly **No. 179361**, luffing jib assembly **No. A18387**, Wire Rope Specification chart **No. 8811-B**, Luffing Jib Raising Procedure chart **No. 8799-B**, 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-B**.



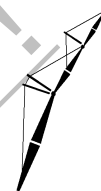
OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block.



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.



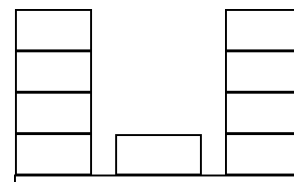
FIXED JIB POINT ELEVATION: Fixed jib point elevation is vertical distance from ground level to centerline of fixed jib point shaft.

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. 8804-A** for luffing jib capacities.

Boom Catwalks Deduct

Deduct 200 lb from capacities when boom catwalks are attached.



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

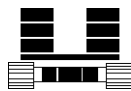
Explanation of Symbols



Fixed Jib No. 138
+
Luffing Jib No. 135
+
Boom No. 76



Jib Offset Angle



Crane Counterweight
+
Carbody Counterweight



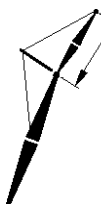
360 Degree Rating



Boom Length



Luffing Jib Length



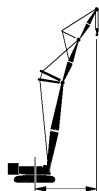
Fixed Jib Length

Explanation of Symbols

(Continued)



Boom Angle
(see page 1)



Operating Radius
(see page 1)



Luffing Jib Angle
(see page 1)



Fixed Jib Point Elevation
(see page 1)



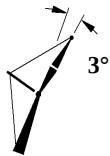
Lifting Capacities
(see page 1)

14000 S-2

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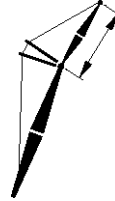
138
+
135
+
76



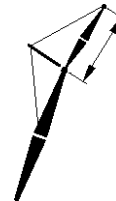
168,000 lb
+
53,000 lb



65.6 ft



140 ft



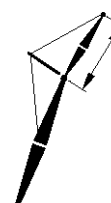
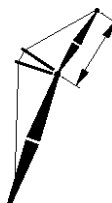
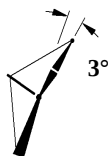
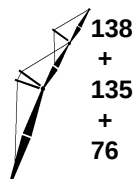
30 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
60	73.7	237.0	28,500*							60
65	72.0	235.4	28,100*							65
70	70.2	233.6	27,800*							70
75	68.4	231.7	27,400*	70.0	232.9	27,800*				75
80	66.6	229.6	27,100*	68.2	230.9	27,500*				80
85	64.7	227.2	26,800*	66.4	228.8	27,200*				85
90	62.8	224.7	26,600*	64.5	226.5	26,900*				90
95	60.9	222.0	25,500*	62.7	223.9	26,500*				95
100	59.0	219.0	24,500*	60.8	221.2	25,500*				100
105	57.0	215.8	23,600*	58.8	218.2	24,500*	62.3	221.3	26,200*	105
110	55.0	212.4	22,800*	56.8	215.0	23,600*	60.3	218.5	25,200*	110
115	52.9	208.6	22,100*	54.8	211.5	22,800*	58.4	215.4	24,300*	115
120	50.7	204.6	21,400*	52.7	207.7	22,000*	56.4	212.2	23,400*	120
125	48.5	200.3	20,700*	50.5	203.7	21,300*	54.3	208.6	22,600*	125
130	46.2	195.6	20,100*	48.3	199.3	20,700*	52.2	204.8	21,900*	130
135	43.8	190.5	19,500*	46.0	194.6	20,100*	50.0	200.7	21,200*	135
140	41.3	184.9	19,000*	43.6	189.4	19,500*	47.8	196.3	20,600*	140
145	38.7	178.8	18,500*	41.1	183.8	19,000*	45.5	191.5	20,000*	145
150	35.8	172.1	18,100*	38.4	177.7	18,500*	43.0	186.2	19,500*	150
155	32.8	164.6	17,700*	35.6	170.9	18,100*	40.5	180.5	19,000*	155
160	29.5	156.2	17,300*	32.5	163.4	17,700*	37.8	174.2	18,500*	160
165	25.9	146.4	17,000*	29.2	154.8	17,300*	35.0	167.3	18,000*	165
170	21.6	134.8	16,700*	25.5	144.9	17,000*	31.9	159.6	17,600*	170
175	16.3	119.7	16,100*	21.2	133.0	16,700*	28.5	150.8	17,300*	175
180	7.9	95.1	12,800*	15.7	117.5	16,400*	24.6	140.5	16,900*	180
185				6.6	90.7	13,500*	20.1	128.0	16,700*	185
190							14.3	111.3	16,400*	190



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14000 S-2



65.6 ft

150 ft

30 ft

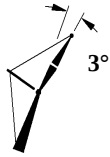
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
60	74.6	247.4	28,100*							60
65	73.0	245.9	27,700*							65
70	71.3	244.3	27,400*							70
75	69.6	242.4	27,100*							75
80	67.9	240.4	26,800*	69.5	241.7	27,100*				80
85	66.2	238.3	26,500*	67.8	239.7	26,800*				85
90	64.5	235.9	26,100*	66.1	237.5	26,600*				90
95	62.7	233.4	25,100*	64.3	235.1	26,100*				95
100	60.9	230.6	24,200*	62.5	232.6	25,100*				100
105	59.0	227.7	23,300*	60.7	229.8	24,200*				105
110	57.2	224.5	22,500*	58.9	226.8	23,300*	62.1	229.9	24,800*	110
115	55.2	221.1	21,800*	57.0	223.6	22,500*	60.3	227.1	23,900*	115
120	53.3	217.4	21,100*	55.1	220.2	21,800*	58.5	224.1	23,100*	120
125	51.3	213.5	20,500*	53.1	216.5	21,100*	56.6	220.9	22,400*	125
130	49.2	209.2	19,900*	51.1	212.5	20,500*	54.7	217.4	21,600*	130
135	47.0	204.6	19,300*	49.0	208.3	19,900*	52.7	213.6	21,000*	135
140	44.8	199.7	18,800*	46.8	203.7	19,300*	50.6	209.6	20,400*	140
145	42.5	194.4	18,400*	44.6	198.7	18,800*	48.5	205.2	19,800*	145
150	40.1	188.6	17,900*	42.3	193.3	18,300*	46.4	200.6	19,300*	150
155	37.5	182.2	17,500*	39.8	187.5	17,900*	44.1	195.5	18,800*	155
160	34.8	175.2	17,100*	37.3	181.1	17,500*	41.8	190.1	18,300*	160
165	31.9	167.5	16,800*	34.5	174.0	17,100*	39.3	184.1	17,900*	165
170	28.7	158.7	16,500*	31.6	166.2	16,800*	36.7	177.6	17,500*	170
175	25.1	148.6	16,100*	28.4	157.3	16,500*	33.9	170.4	17,100*	175
180	21.0	136.6	15,900*	24.8	147.1	16,200*	30.9	162.3	16,700*	180
185	15.8	121.1	14,400*	20.6	134.8	15,900*	27.6	153.2	16,400*	185
190	7.6	95.8	11,400*	15.3	118.8	15,300*	23.9	142.6	16,100*	190
195				6.4	91.2	12,100*	19.5	129.7	15,900*	195
200							13.9	112.4	15,700*	200

14000 S-2

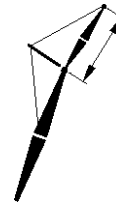
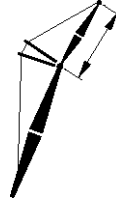
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



65.6 ft

160 ft

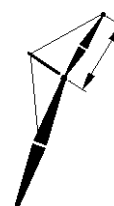
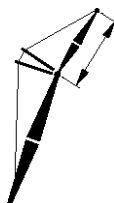
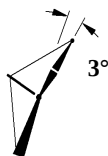
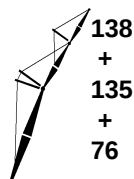
30 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	73.9	256.4	27,200*							65
70	72.3	254.8	26,900*							70
75	70.8	253.1	26,600*							75
80	69.2	251.2	26,300*	70.6	252.4	26,600*				80
85	67.5	249.2	26,100*	69.0	250.5	26,300*				85
90	65.9	247.0	25,700*	67.4	248.4	26,100*				90
95	64.2	244.6	24,700*	65.7	246.2	25,600*				95
100	62.5	242.0	23,800*	64.1	243.8	24,700*				100
105	60.8	239.3	23,000*	62.4	241.2	23,800*				105
110	59.1	236.3	22,200*	60.7	238.5	23,000*				110
115	57.3	233.2	21,500*	58.9	235.5	22,200*	62.0	238.6	23,500*	115
120	55.5	229.8	20,900*	57.2	232.3	21,500*	60.3	235.8	22,700*	120
125	53.6	226.2	20,300*	55.3	228.9	20,900*	58.5	232.8	22,000*	125
130	51.8	222.3	19,700*	53.5	225.3	20,200*	56.8	229.6	21,300*	130
135	49.8	218.1	19,200*	51.6	221.4	19,700*	54.9	226.1	20,700*	135
140	47.8	213.7	18,700*	49.6	217.2	19,200*	53.1	222.4	20,100*	140
145	45.7	208.9	18,200*	47.6	212.7	18,700*	51.2	218.4	19,600*	145
150	43.5	203.7	17,800*	45.5	207.9	18,200*	49.2	214.2	19,100*	150
155	41.3	198.1	17,400*	43.3	202.7	17,800*	47.2	209.6	18,600*	155
160	39.0	192.1	17,000*	41.1	197.1	17,400*	45.1	204.7	18,100*	160
165	36.5	185.5	16,700*	38.7	191.0	17,000*	42.9	199.5	17,700*	165
170	33.8	178.3	16,300*	36.2	184.3	16,700*	40.6	193.8	17,300*	170
175	31.0	170.2	16,000*	33.6	177.0	16,300*	38.2	187.6	17,000*	175
180	27.9	161.2	15,800*	30.7	168.9	16,000*	35.7	180.8	16,600*	180
185	24.4	150.8	15,500*	27.6	159.8	15,800*	33.0	173.3	16,300*	185
190	20.4	138.4	14,800*	24.1	149.2	15,500*	30.1	165.0	16,000*	190
195	15.4	122.4	12,700*	20.0	136.5	15,300*	26.9	155.6	15,800*	195
200	7.4	96.4	10,000*	14.8	120.1	13,500*	23.3	144.6	15,500*	200
205				6.2	91.7	10,600*	19.0	131.4	15,300*	205
210							13.5	113.6	14,600*	210



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14000 S-2



65.6 ft

170 ft

30 ft

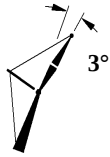
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	74.7	266.8	26,500*							65
70	73.2	265.3	26,200*							70
75	71.7	263.7	25,800*							75
80	70.2	261.9	25,400*							80
85	68.7	260.0	25,000*	70.1	261.2	25,000*				85
90	67.2	257.9	24,600*	68.6	259.3	24,700*				90
95	65.6	255.7	24,100*	67.0	257.2	24,300*				95
100	64.0	253.3	23,300*	65.5	254.9	23,900*				100
105	62.4	250.7	22,500*	63.9	252.5	23,300*				105
110	60.8	247.9	21,800*	62.3	249.9	22,500*				110
115	59.1	245.0	21,100*	60.6	247.1	21,800*				115
120	57.5	241.9	20,500*	59.0	244.2	21,100*	61.9	247.3	22,200*	120
125	55.7	238.5	19,900*	57.3	241.0	20,500*	60.3	244.5	21,600*	125
130	54.0	234.9	19,400*	55.6	237.6	19,900*	58.6	241.4	20,900*	130
135	52.2	231.1	18,800*	53.8	234.0	19,300*	56.9	238.2	20,300*	135
140	50.3	227.0	18,400*	52.0	230.2	18,800*	55.2	234.8	19,700*	140
145	48.5	222.6	17,900*	50.2	226.1	18,400*	53.4	231.2	19,200*	145
150	46.5	218.0	17,500*	48.3	221.7	17,900*	51.6	227.3	18,700*	150
155	44.5	213.0	17,100*	46.3	217.0	17,500*	49.8	223.1	18,300*	155
160	42.4	207.6	16,800*	44.3	211.9	17,100*	47.9	218.6	17,800*	160
165	40.2	201.8	16,400*	42.2	206.5	16,800*	45.9	213.9	17,400*	165
170	37.9	195.5	16,100*	40.0	200.7	16,400*	43.8	208.8	17,100*	170
175	35.5	188.7	15,800*	37.7	194.4	16,100*	41.7	203.3	16,700*	175
180	32.9	181.2	15,600*	35.3	187.5	15,800*	39.5	197.4	16,400*	180
185	30.2	172.9	15,300*	32.7	180.0	15,600*	37.2	190.9	16,100*	185
190	27.2	163.6	15,100*	29.9	171.6	15,300*	34.7	183.9	15,800*	190
195	23.8	152.9	14,600*	26.9	162.1	15,100*	32.1	176.2	15,500*	195
200	19.9	140.1	13,100*	23.5	151.3	14,500*	29.3	167.6	15,300*	200
205	15.0	123.7	11,200*	19.5	138.2	13,800*	26.2	157.9	15,100*	205
210	7.2	97.0	8,700*	14.4	121.3	12,000*	22.7	146.6	14,500*	210
215				6.0	92.2	9,300*	18.5	133.0	13,700*	215
220							13.1	114.7	13,000*	220

14000 S-2

ANSI B30.5



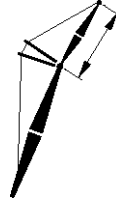
138
+
135
+
76



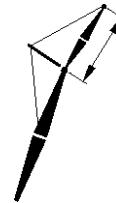
168,000 lb
+
53,000 lb



65.6 ft



140 ft



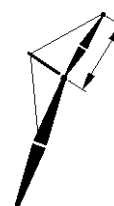
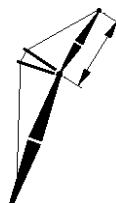
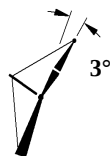
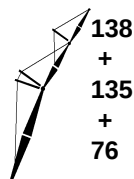
40 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	73.4	245.9	23,400*							65
70	71.7	244.2	23,100*							70
75	70.1	242.4	22,800*							75
80	68.3	240.4	22,500*	69.9	241.7	22,800*				80
85	66.6	238.2	22,200*	68.2	239.6	22,500*				85
90	64.9	235.9	21,900*	66.5	237.5	22,200*				90
95	63.1	233.3	21,400*	64.7	235.1	22,000*				95
100	61.3	230.6	20,500*	62.9	232.5	21,300*				100
105	59.5	227.6	19,800*	61.1	229.8	20,500*				105
110	57.6	224.4	19,100*	59.3	226.8	19,700*	62.5	229.9	21,100*	110
115	55.7	221.0	18,400*	57.4	223.6	19,000*	60.7	227.1	20,300*	115
120	53.7	217.3	17,800*	55.5	220.1	18,400*	58.9	224.1	19,600*	120
125	51.7	213.4	17,200*	53.5	216.4	17,800*	57.0	220.8	18,900*	125
130	49.6	209.1	16,700*	51.5	212.5	17,200*	55.1	217.3	18,300*	130
135	47.5	204.6	16,200*	49.4	208.2	16,700*	53.1	213.6	17,700*	135
140	45.2	199.6	15,800*	47.2	203.6	16,200*	51.0	209.5	17,100*	140
145	42.9	194.3	15,400*	45.0	198.6	15,800*	49.0	205.2	16,600*	145
150	40.5	188.5	15,000*	42.7	193.2	15,300*	46.8	200.5	16,100*	150
155	37.9	182.1	14,600*	40.2	187.4	15,000*	44.5	195.4	15,700*	155
160	35.2	175.2	14,300*	37.7	181.0	14,600*	42.2	190.0	15,300*	160
165	32.3	167.4	13,900*	34.9	173.9	14,300*	39.7	184.0	14,900*	165
170	29.1	158.6	13,700*	32.0	166.1	13,900*	37.1	177.5	14,600*	170
175	25.5	148.5	13,400*	28.8	157.2	13,700*	34.3	170.3	14,200*	175
180	21.4	136.4	13,200*	25.2	147.0	13,400*	31.3	162.2	13,900*	180
185	16.2	120.9	13,000*	21.0	134.6	13,200*	28.0	153.1	13,600*	185
190	7.9	95.3	11,800*	15.6	118.6	13,000*	24.3	142.5	13,400*	190
195				6.6	90.7	12,400*	19.9	129.6	13,200*	195
200							14.2	112.2	13,000*	200



ANSI B30.5

14000 S-2



65.6 ft

150 ft

40 ft

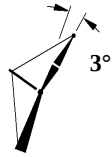
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	74.3	256.3	23,100*							65
70	72.7	254.8	22,800*							70
75	71.2	253.1	22,500*							75
80	69.5	251.2	22,300*							80
85	67.9	249.1	22,000*	69.4	250.4	22,300*				85
90	66.3	246.9	21,700*	67.8	248.4	22,000*				90
95	64.6	244.6	21,000*	66.1	246.2	21,800*				95
100	62.9	242.0	20,200*	64.5	243.8	21,000*				100
105	61.2	239.2	19,500*	62.8	241.2	20,200*				105
110	59.5	236.3	18,800*	61.1	238.4	19,400*				110
115	57.7	233.1	18,200*	59.3	235.4	18,800*	62.4	238.6	20,000*	115
120	55.9	229.7	17,600*	57.5	232.3	18,100*	60.7	235.7	19,300*	120
125	54.0	226.1	17,000*	55.7	228.9	17,500*	58.9	232.7	18,600*	125
130	52.1	222.2	16,500*	53.9	225.2	17,000*	57.2	229.5	18,000*	130
135	50.2	218.1	16,000*	52.0	221.3	16,500*	55.3	226.0	17,400*	135
140	48.2	213.6	15,600*	50.0	217.1	16,000*	53.5	222.3	16,900*	140
145	46.1	208.8	15,200*	48.0	212.6	15,600*	51.5	218.4	16,400*	145
150	43.9	203.6	14,800*	45.9	207.8	15,200*	49.6	214.1	15,900*	150
155	41.7	198.1	14,400*	43.7	202.6	14,800*	47.5	209.6	15,500*	155
160	39.3	192.0	14,100*	41.5	197.0	14,400*	45.5	204.7	15,100*	160
165	36.8	185.4	13,800*	39.1	190.9	14,100*	43.3	199.4	14,700*	165
170	34.2	178.2	13,500*	36.6	184.2	13,800*	41.0	193.7	14,400*	170
175	31.4	170.1	13,200*	34.0	176.9	13,500*	38.6	187.5	14,000*	175
180	28.3	161.1	13,000*	31.1	168.8	13,200*	36.1	180.7	13,700*	180
185	24.8	150.7	12,700*	28.0	159.7	13,000*	33.4	173.2	13,400*	185
190	20.8	138.2	12,500*	24.5	149.1	12,700*	30.5	164.9	13,200*	190
195	15.7	122.2	12,400*	20.4	136.4	12,500*	27.2	155.5	12,900*	195
200	7.7	95.9	10,600*	15.2	119.9	12,400*	23.6	144.5	12,700*	200
205				6.4	91.2	11,100*	19.4	131.2	12,500*	205
210							13.8	113.4	12,400*	210

14000 S-2

ANSI B30.5



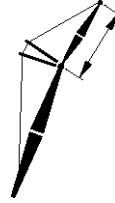
138
+
135
+
76



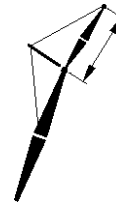
168,000 lb
+
53,000 lb



65.6 ft



160 ft



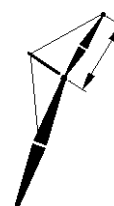
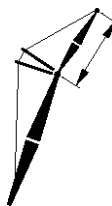
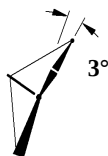
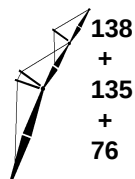
40 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	73.6	265.3	22,500*							70
75	72.1	263.6	22,200*							75
80	70.6	261.9	21,900*							80
85	69.1	260.0	21,600*	70.5	261.1	21,900*				85
90	67.5	257.9	21,400*	68.9	259.2	21,700*				90
95	66.0	255.6	20,600*	67.4	257.1	21,400*				95
100	64.4	253.2	19,900*	65.8	254.9	20,600*				100
105	62.8	250.6	19,200*	64.2	252.4	19,800*				105
110	61.2	247.9	18,500*	62.6	249.9	19,100*				110
115	59.5	244.9	17,900*	61.0	247.1	18,500*				115
120	57.8	241.8	17,300*	59.3	244.1	17,900*	62.3	247.2	19,000*	120
125	56.1	238.4	16,800*	57.7	240.9	17,300*	60.7	244.4	18,300*	125
130	54.3	234.8	16,300*	55.9	237.6	16,800*	59.0	241.4	17,700*	130
135	52.5	231.0	15,800*	54.2	233.9	16,300*	57.3	238.2	17,200*	135
140	50.7	226.9	15,400*	52.4	230.1	15,800*	55.6	234.8	16,700*	140
145	48.8	222.6	15,000*	50.5	226.0	15,400*	53.8	231.1	16,200*	145
150	46.9	217.9	14,600*	48.6	221.6	15,000*	52.0	227.2	15,700*	150
155	44.8	212.9	14,300*	46.7	216.9	14,600*	50.1	223.0	15,300*	155
160	42.8	207.5	13,900*	44.7	211.9	14,300*	48.2	218.6	14,900*	160
165	40.6	201.7	13,600*	42.6	206.5	13,900*	46.3	213.8	14,600*	165
170	38.3	195.5	13,400*	40.4	200.6	13,600*	44.2	208.7	14,200*	170
175	35.9	188.6	13,100*	38.1	194.3	13,300*	42.1	203.2	13,900*	175
180	33.3	181.1	12,800*	35.7	187.4	13,100*	39.9	197.3	13,600*	180
185	30.5	172.8	12,600*	33.1	179.9	12,800*	37.6	190.8	13,300*	185
190	27.5	163.5	12,400*	30.3	171.5	12,600*	35.1	183.8	13,100*	190
195	24.1	152.7	12,200*	27.2	162.0	12,400*	32.5	176.1	12,800*	195
200	20.2	139.9	12,000*	23.8	151.1	12,200*	29.6	167.5	12,600*	200
205	15.3	123.4	11,700*	19.8	138.1	12,000*	26.5	157.8	12,400*	205
210	7.5	96.5	9,200*	14.8	121.1	11,900*	23.0	146.5	12,200*	210
215				6.2	91.7	9,800*	18.9	132.8	12,000*	215
220							13.4	114.5	11,900*	220



ANSI B30.5

14000 S-2



65.6 ft

170 ft

40 ft

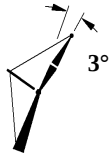
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.4	275.7	22,000*							70
75	73.0	274.2	21,700*							75
80	71.6	272.5	21,500*							80
85	70.1	270.7	21,200*							85
90	68.7	268.7	21,000*	70.0	270.0	21,200*				90
95	67.2	266.6	20,200*	68.5	268.0	20,900*				95
100	65.7	264.3	19,500*	67.1	265.8	20,100*				100
105	64.2	261.9	18,800*	65.6	263.6	19,400*				105
110	62.7	259.3	18,100*	64.1	261.1	18,700*				110
115	61.1	256.5	17,600*	62.5	258.5	18,100*				115
120	59.5	253.6	17,000*	61.0	255.7	17,500*				120
125	57.9	250.5	16,500*	59.4	252.8	17,000*	62.2	255.9	18,000*	125
130	56.3	247.1	16,000*	57.8	249.6	16,500*	60.6	253.1	17,400*	130
135	54.6	243.6	15,600*	56.1	246.3	16,000*	59.0	250.1	16,900*	135
140	52.9	239.8	15,200*	54.5	242.7	15,500*	57.4	246.9	16,400*	140
145	51.2	235.8	14,800*	52.8	238.9	15,100*	55.8	243.5	15,900*	145
150	49.4	231.5	14,400*	51.0	234.9	14,700*	54.1	239.8	15,500*	150
155	47.6	226.9	14,000*	49.2	230.6	14,400*	52.4	236.0	15,100*	155
160	45.7	222.1	13,700*	47.4	226.0	14,000*	50.6	231.9	14,700*	160
165	43.7	216.9	13,400*	45.5	221.1	13,700*	48.8	227.5	14,300*	165
170	41.7	211.3	13,100*	43.5	215.8	13,400*	47.0	222.9	14,000*	170
175	39.5	205.3	12,900*	41.5	210.2	13,100*	45.1	217.9	13,700*	175
180	37.3	198.8	12,600*	39.3	204.2	12,900*	43.1	212.6	13,400*	180
185	35.0	191.7	12,400*	37.1	197.6	12,600*	41.0	206.9	13,100*	185
190	32.5	184.0	12,200*	34.7	190.5	12,400*	38.9	200.8	12,800*	190
195	29.8	175.4	12,000*	32.2	182.7	12,200*	36.6	194.1	12,600*	195
200	26.8	165.8	11,800*	29.5	174.1	12,000*	34.2	186.9	12,400*	200
205	23.5	154.8	11,600*	26.5	164.3	11,800*	31.7	178.9	12,200*	205
210	19.7	141.6	11,500*	23.2	153.1	11,600*	28.9	170.0	12,000*	210
215	14.9	124.7	10,300*	19.3	139.7	11,500*	25.9	160.0	11,800*	215
220	7.3	97.1	8,000*	14.4	122.3	11,100*	22.4	148.4	11,600*	220
225				6.1	92.1	8,600*	18.4	134.4	11,500*	225
230							13.1	115.6	11,400*	230

14000 S-2

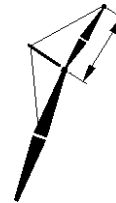
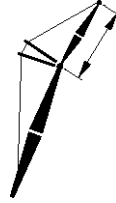
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb

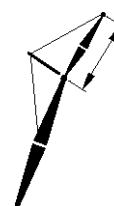
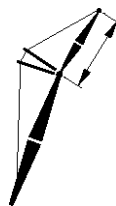
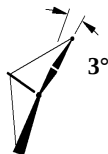
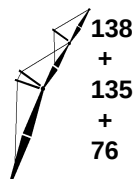


65.6 ft

140 ft

50 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	74.4	256.3	20,000*							65
70	72.8	254.8	19,700*							70
75	71.2	253.1	19,400*							75
80	69.6	251.2	19,100*							80
85	68.0	249.1	18,900*	69.5	250.4	19,100*				85
90	66.4	246.9	18,600*	67.9	248.4	18,900*				90
95	64.7	244.6	18,300*	66.2	246.2	18,600*				95
100	63.0	242.0	18,000*	64.6	243.8	18,300*				100
105	61.3	239.2	17,300*	62.9	241.2	18,000*				105
110	59.6	236.3	16,700*	61.2	238.4	17,300*				110
115	57.8	233.1	16,100*	59.4	235.4	16,700*	62.5	238.6	17,800*	115
120	56.0	229.7	15,500*	57.6	232.3	16,100*	60.8	235.8	17,200*	120
125	54.1	226.1	15,000*	55.8	228.9	15,500*	59.0	232.7	16,500*	125
130	52.2	222.2	14,600*	54.0	225.2	15,000*	57.3	229.5	16,000*	130
135	50.3	218.1	14,100*	52.1	221.3	14,500*	55.4	226.0	15,400*	135
140	48.3	213.6	13,700*	50.1	217.1	14,100*	53.6	222.3	14,900*	140
145	46.2	208.8	13,300*	48.1	212.6	13,700*	51.7	218.4	14,500*	145
150	44.0	203.7	13,000*	46.0	207.8	13,300*	49.7	214.1	14,000*	150
155	41.8	198.1	12,600*	43.8	202.6	12,900*	47.7	209.6	13,600*	155
160	39.4	192.0	12,300*	41.6	197.0	12,600*	45.5	204.7	13,200*	160
165	37.0	185.4	12,000*	39.2	190.9	12,300*	43.4	199.4	12,900*	165
170	34.3	178.2	11,700*	36.7	184.3	12,000*	41.1	193.7	12,600*	170
175	31.5	170.2	11,500*	34.1	177.0	11,700*	38.7	187.5	12,200*	175
180	28.4	161.1	11,200*	31.2	168.8	11,500*	36.2	180.7	12,000*	180
185	24.9	150.7	11,000*	28.1	159.7	11,200*	33.5	173.2	11,700*	185
190	20.9	138.2	10,800*	24.6	149.1	11,000*	30.6	164.9	11,400*	190
195	15.8	122.2	10,600*	20.5	136.4	10,800*	27.4	155.5	11,200*	195
200	7.8	96.0	10,600*	15.3	119.9	10,700*	23.7	144.5	11,000*	200
205				6.6	91.3	10,600*	19.5	131.2	10,800*	205
210							13.9	113.4	10,600*	210



65.6 ft

150 ft

50 ft

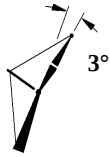
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	73.7	265.3	19,500*							70
75	72.2	263.6	19,200*							75
80	70.7	261.9	18,900*							80
85	69.2	260.0	18,700*	70.6	261.1	18,900*				85
90	67.6	257.9	18,400*	69.0	259.2	18,700*				90
95	66.1	255.6	18,200*	67.5	257.1	18,400*				95
100	64.5	253.2	17,800*	65.9	254.9	18,200*				100
105	62.9	250.7	17,100*	64.3	252.4	17,700*				105
110	61.3	247.9	16,500*	62.7	249.9	17,000*				110
115	59.6	244.9	15,900*	61.1	247.1	16,400*				115
120	57.9	241.8	15,300*	59.5	244.1	15,800*	62.4	247.2	16,900*	120
125	56.2	238.4	14,800*	57.8	240.9	15,300*	60.8	244.4	16,300*	125
130	54.4	234.9	14,400*	56.0	237.6	14,800*	59.1	241.4	15,700*	130
135	52.7	231.0	13,900*	54.3	234.0	14,400*	57.4	238.2	15,200*	135
140	50.8	226.9	13,500*	52.5	230.1	13,900*	55.7	234.8	14,700*	140
145	48.9	222.6	13,100*	50.6	226.0	13,500*	53.9	231.1	14,300*	145
150	47.0	217.9	12,800*	48.7	221.6	13,100*	52.1	227.2	13,800*	150
155	45.0	212.9	12,500*	46.8	216.9	12,800*	50.2	223.0	13,400*	155
160	42.8	207.5	12,100*	44.8	211.9	12,400*	48.3	218.6	13,100*	160
165	40.7	201.7	11,800*	42.7	206.5	12,100*	46.4	213.8	12,700*	165
170	38.4	195.5	11,600*	40.5	200.6	11,800*	44.3	208.7	12,400*	170
175	36.0	188.6	11,300*	38.2	194.3	11,600*	42.2	203.2	12,100*	175
180	33.4	181.1	11,100*	35.7	187.4	11,300*	40.0	197.3	11,800*	180
185	30.6	172.9	10,800*	33.2	179.9	11,100*	37.7	190.8	11,500*	185
190	27.6	163.5	10,600*	30.4	171.5	10,800*	35.2	183.8	11,300*	190
195	24.2	152.8	10,400*	27.3	162.1	10,600*	32.6	176.1	11,000*	195
200	20.3	139.9	10,300*	23.9	151.1	10,400*	29.7	167.5	10,800*	200
205	15.4	123.5	10,100*	19.9	138.1	10,300*	26.6	157.8	10,600*	205
210	7.6	96.6	9,700*	14.9	121.1	10,100*	23.1	146.5	10,400*	210
215				6.4	91.7	10,100*	19.0	132.8	10,300*	215
220							13.5	114.5	10,100*	220

14000 S-2

ANSI B30.5



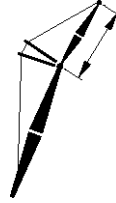
138
+
135
+
76



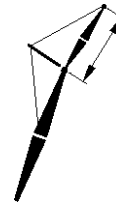
168,000 lb
+
53,000 lb



65.6 ft



160 ft

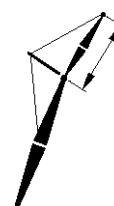
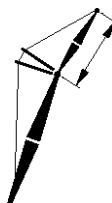
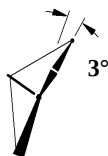
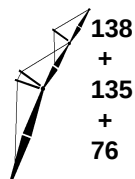


50 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.5	275.7	19,200*							70
75	73.1	274.2	18,900*							75
80	71.7	272.5	18,700*							80
85	70.2	270.7	18,400*							85
90	68.8	268.7	18,200*	70.1	270.0	18,400*				90
95	67.3	266.6	18,000*	68.6	268.0	18,200*				95
100	65.8	264.3	17,500*	67.2	265.9	18,000*				100
105	64.3	261.9	16,800*	65.7	263.6	17,400*				105
110	62.8	259.3	16,200*	64.1	261.1	16,800*				110
115	61.2	256.6	15,600*	62.6	258.5	16,200*				115
120	59.6	253.6	15,100*	61.0	255.7	15,600*				120
125	58.0	250.5	14,600*	59.5	252.8	15,100*	62.3	255.9	16,000*	125
130	56.4	247.1	14,200*	57.9	249.6	14,600*	60.7	253.1	15,500*	130
135	54.7	243.6	13,800*	56.2	246.3	14,200*	59.1	250.1	15,000*	135
140	53.0	239.8	13,400*	54.6	242.7	13,700*	57.5	246.9	14,500*	140
145	51.3	235.8	13,000*	52.9	238.9	13,400*	55.9	243.5	14,100*	145
150	49.5	231.5	12,600*	51.1	234.9	13,000*	54.2	239.9	13,700*	150
155	47.7	227.0	12,300*	49.3	230.6	12,600*	52.5	236.0	13,300*	155
160	45.8	222.1	12,000*	47.5	226.0	12,300*	50.7	231.9	12,900*	160
165	43.8	216.9	11,700*	45.6	221.1	12,000*	48.9	227.6	12,600*	165
170	41.8	211.3	11,400*	43.6	215.9	11,700*	47.1	222.9	12,300*	170
175	39.6	205.3	11,200*	41.6	210.2	11,400*	45.2	217.9	12,000*	175
180	37.4	198.8	11,000*	39.4	204.2	11,200*	43.2	212.6	11,700*	180
185	35.1	191.8	10,700*	37.2	197.6	10,900*	41.1	206.9	11,400*	185
190	32.5	184.0	10,500*	34.8	190.5	10,700*	39.0	200.8	11,200*	190
195	29.9	175.5	10,300*	32.3	182.7	10,500*	36.7	194.1	10,900*	195
200	26.9	165.8	10,100*	29.6	174.1	10,300*	34.3	186.9	10,700*	200
205	23.6	154.8	10,000*	26.6	164.4	10,100*	31.8	178.9	10,500*	205
210	19.8	141.6	9,800*	23.3	153.1	10,000*	29.0	170.0	10,300*	210
215	15.0	124.7	9,700*	19.4	139.7	9,800*	26.0	160.0	10,100*	215
220	7.4	97.1	8,500*	14.5	122.3	9,700*	22.5	148.4	10,000*	220
225				6.2	92.2	9,000*	18.5	134.4	9,800*	225
230							13.2	115.6	9,700*	230



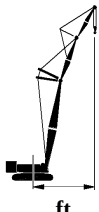
ANSI B30.5

14000 S-2

65.6 ft

170 ft

50 ft

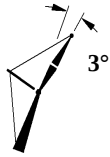
 ft	87°			83°			75°			 ft
	°	ft	lb	°	ft	lb	°	ft	lb	
75	73.9	284.7	18,600*							75
80	72.5	283.1	18,300*							80
85	71.2	281.3	18,100*							85
90	69.8	279.5	17,800*							90
95	68.4	277.5	17,500*	69.6	278.7	17,600*				95
100	67.0	275.3	17,100*	68.2	276.7	17,300*				100
105	65.5	273.0	16,500*	66.8	274.6	17,000*				105
110	64.1	270.6	15,900*	65.4	272.3	16,400*				110
115	62.6	268.0	15,400*	64.0	269.8	15,900*				115
120	61.1	265.2	14,900*	62.5	267.2	15,300*				120
125	59.6	262.3	14,400*	61.0	264.4	14,800*				125
130	58.1	259.1	13,900*	59.5	261.4	14,400*	62.2	264.5	15,200*	130
135	56.5	255.8	13,500*	58.0	258.3	13,900*	60.7	261.7	14,700*	135
140	55.0	252.3	13,100*	56.4	255.0	13,500*	59.2	258.7	14,300*	140
145	53.3	248.6	12,800*	54.8	251.4	13,100*	57.6	255.6	13,800*	145
150	51.7	244.6	12,400*	53.2	247.7	12,800*	56.1	252.2	13,400*	150
155	50.0	240.4	12,100*	51.5	243.7	12,400*	54.5	248.6	13,000*	155
160	48.3	236.0	11,800*	49.8	239.5	12,100*	52.8	244.8	12,700*	160
165	46.5	231.2	11,500*	48.1	235.0	11,800*	51.2	240.8	12,400*	165
170	44.6	226.2	11,300*	46.3	230.2	11,500*	49.5	236.5	12,100*	170
175	42.7	220.8	11,000*	44.5	225.1	11,300*	47.7	231.9	11,800*	175
180	40.7	215.0	10,800*	42.5	219.7	11,000*	45.9	227.1	11,500*	180
185	38.7	208.8	10,600*	40.6	213.9	10,800*	44.0	221.9	11,200*	185
190	36.5	202.1	10,400*	38.5	207.6	10,600*	42.1	216.4	11,000*	190
195	34.2	194.8	10,200*	36.3	200.9	10,300*	40.1	210.5	10,700*	195
200	31.8	186.8	10,000*	34.0	193.5	10,200*	38.0	204.2	10,500*	200
205	29.1	178.0	9,800*	31.5	185.5	10,000*	35.8	197.3	10,300*	205
210	26.3	168.1	9,700*	28.9	176.6	9,800*	33.5	189.8	10,100*	210
215	23.0	156.8	9,500*	26.0	166.6	9,700*	31.0	181.6	10,000*	215
220	19.3	143.3	9,400*	22.7	155.1	9,500*	28.3	172.5	9,800*	220
225	14.6	125.9	9,300*	18.9	141.3	9,400*	25.3	162.2	9,600*	225
230	7.2	97.7	7,400*	14.1	123.5	9,300*	22.0	150.3	9,500*	230
235				6.0	92.6	7,900*	18.0	135.9	9,400*	235
240							12.9	116.7	9,300*	240

14000 S-2

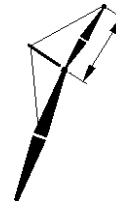
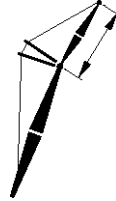
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb

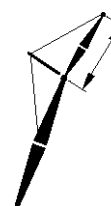
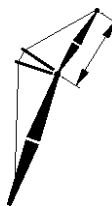
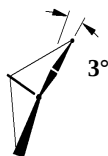
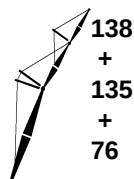


65.6 ft

140 ft

60 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	73.5	265.3	16,900*							70
75	72.0	263.7	16,600*							75
80	70.5	261.9	16,200*							80
85	69.0	260.0	15,900*	70.4	261.2	16,100*				85
90	67.4	257.9	15,500*	68.8	259.3	15,800*				90
95	65.9	255.7	15,200*	67.3	257.2	15,400*				95
100	64.3	253.3	14,800*	65.7	254.9	15,100*				100
105	62.7	250.7	14,500*	64.2	252.5	14,700*				105
110	61.1	247.9	14,200*	62.5	249.9	14,400*				110
115	59.4	245.0	13,900*	60.9	247.1	14,100*				115
120	57.7	241.9	13,500*	59.3	244.2	13,800*	62.2	247.3	14,200*	120
125	56.0	238.5	13,100*	57.6	241.0	13,500*	60.6	244.5	13,900*	125
130	54.3	234.9	12,700*	55.9	237.6	13,100*	58.9	241.4	13,600*	130
135	52.5	231.1	12,300*	54.1	234.0	12,600*	57.2	238.2	13,400*	135
140	50.6	227.0	11,900*	52.3	230.2	12,300*	55.5	234.8	13,000*	140
145	48.7	222.6	11,600*	50.5	226.1	11,900*	53.7	231.2	12,600*	145
150	46.8	218.0	11,300*	48.6	221.7	11,600*	51.9	227.2	12,200*	150
155	44.8	213.0	11,000*	46.6	217.0	11,200*	50.0	223.1	11,800*	155
160	42.7	207.6	10,700*	44.6	211.9	10,900*	48.1	218.6	11,500*	160
165	40.5	201.8	10,400*	42.5	206.5	10,700*	46.2	213.9	11,200*	165
170	38.2	195.5	10,100*	40.3	200.7	10,400*	44.1	208.8	10,900*	170
175	35.8	188.7	9,900*	38.0	194.4	10,100*	42.0	203.3	10,600*	175
180	33.2	181.2	9,700*	35.6	187.5	9,900*	39.8	197.3	10,400*	180
185	30.5	172.9	9,400*	33.0	180.0	9,700*	37.5	190.9	10,100*	185
190	27.4	163.6	9,200*	30.2	171.6	9,400*	35.0	183.9	9,900*	190
195	24.1	152.9	9,000*	27.2	162.1	9,200*	32.4	176.2	9,600*	195
200	20.1	140.1	8,900*	23.7	151.3	9,000*	29.6	167.6	9,400*	200
205	15.2	123.7	8,700*	19.8	138.2	8,900*	26.5	157.9	9,200*	205
210	7.5	96.9	8,600*	14.7	121.3	8,700*	22.9	146.6	9,000*	210
215				6.3	92.2	8,600*	18.8	133.0	8,900*	215
220							13.4	114.7	8,700*	220



65.6 ft

150 ft

60 ft

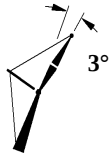
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.3	275.8	16,500*							70
75	72.9	274.2	16,200*							75
80	71.5	272.5	15,900*							80
85	70.0	270.7	15,500*							85
90	68.6	268.8	15,200*	69.9	270.0	15,400*				90
95	67.1	266.6	14,800*	68.4	268.0	15,100*				95
100	65.6	264.4	14,500*	67.0	265.9	14,700*				100
105	64.1	262.0	14,200*	65.5	263.6	14,400*				105
110	62.6	259.4	13,900*	64.0	261.2	14,100*				110
115	61.0	256.6	13,600*	62.4	258.6	13,900*				115
120	59.4	253.7	13,400*	60.9	255.8	13,600*				120
125	57.8	250.5	13,000*	59.3	252.8	13,300*	62.1	255.9	13,600*	125
130	56.2	247.2	12,600*	57.7	249.7	12,900*	60.5	253.1	13,400*	130
135	54.5	243.6	12,200*	56.1	246.3	12,500*	59.0	250.1	13,100*	135
140	52.8	239.9	11,800*	54.4	242.8	12,200*	57.3	246.9	12,900*	140
145	51.1	235.9	11,500*	52.7	239.0	11,800*	55.7	243.5	12,500*	145
150	49.3	231.6	11,200*	50.9	234.9	11,500*	54.0	239.9	12,100*	150
155	47.5	227.0	10,900*	49.2	230.6	11,200*	52.3	236.1	11,800*	155
160	45.6	222.2	10,600*	47.3	226.0	10,900*	50.6	232.0	11,400*	160
165	43.6	217.0	10,400*	45.4	221.1	10,600*	48.8	227.6	11,100*	165
170	41.6	211.4	10,100*	43.4	215.9	10,400*	46.9	223.0	10,800*	170
175	39.5	205.4	9,900*	41.4	210.3	10,100*	45.0	218.0	10,600*	175
180	37.2	198.9	9,700*	39.3	204.2	9,900*	43.0	212.7	10,300*	180
185	34.9	191.8	9,400*	37.0	197.7	9,600*	41.0	207.0	10,100*	185
190	32.4	184.1	9,200*	34.7	190.6	9,400*	38.8	200.8	9,800*	190
195	29.7	175.6	9,000*	32.2	182.8	9,200*	36.5	194.2	9,600*	195
200	26.8	165.9	8,900*	29.4	174.2	9,000*	34.1	186.9	9,400*	200
205	23.5	154.9	8,700*	26.5	164.5	8,900*	31.6	179.0	9,200*	205
210	19.6	141.8	8,500*	23.1	153.3	8,700*	28.8	170.1	9,000*	210
215	14.9	124.9	8,400*	19.3	139.9	8,500*	25.8	160.1	8,900*	215
220	7.3	97.5	8,300*	14.4	122.5	8,400*	22.4	148.6	8,700*	220
225				6.1	92.7	8,300*	18.3	134.5	8,500*	225
230							13.1	115.8	8,400*	230

14000 S-2

ANSI B30.5



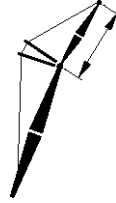
138
+
135
+
76



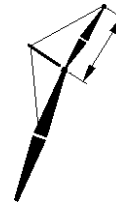
168,000 lb
+
53,000 lb



65.6 ft



160 ft



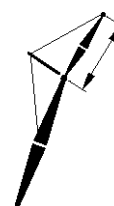
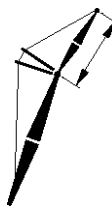
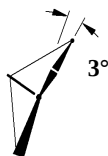
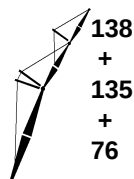
60 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	73.7	284.7	15,600*							75
80	72.3	283.1	15,300*							80
85	71.0	281.4	15,000*							85
90	69.6	279.5	14,700*	70.8	280.7	14,900*				90
95	68.2	277.5	14,400*	69.5	278.8	14,600*				95
100	66.8	275.4	14,100*	68.1	276.8	14,300*				100
105	65.4	273.1	13,800*	66.7	274.6	14,000*				105
110	63.9	270.6	13,600*	65.2	272.3	13,800*				110
115	62.5	268.0	13,300*	63.8	269.9	13,500*				115
120	61.0	265.3	13,100*	62.3	267.2	13,200*				120
125	59.5	262.3	12,800*	60.8	264.5	13,000*				125
130	57.9	259.2	12,500*	59.3	261.5	12,800*	62.0	264.6	13,000*	130
135	56.4	255.9	12,200*	57.8	258.4	12,500*	60.5	261.8	12,800*	135
140	54.8	252.4	11,800*	56.2	255.0	12,100*	59.0	258.8	12,600*	140
145	53.2	248.6	11,500*	54.7	251.5	11,800*	57.5	255.6	12,400*	145
150	51.5	244.7	11,200*	53.0	247.7	11,500*	55.9	252.2	12,100*	150
155	49.8	240.5	10,900*	51.4	243.8	11,200*	54.3	248.6	11,700*	155
160	48.1	236.0	10,600*	49.7	239.5	10,900*	52.7	244.9	11,400*	160
165	46.3	231.3	10,400*	47.9	235.1	10,600*	51.0	240.8	11,100*	165
170	44.5	226.2	10,100*	46.2	230.3	10,400*	49.3	236.6	10,800*	170
175	42.6	220.8	9,900*	44.3	225.2	10,100*	47.6	232.0	10,600*	175
180	40.6	215.1	9,700*	42.4	219.8	9,900*	45.8	227.2	10,300*	180
185	38.5	208.8	9,400*	40.4	213.9	9,600*	43.9	222.0	10,100*	185
190	36.3	202.1	9,200*	38.3	207.7	9,400*	42.0	216.5	9,800*	190
195	34.0	194.9	9,000*	36.1	200.9	9,200*	40.0	210.6	9,600*	195
200	31.6	186.9	8,900*	33.8	193.6	9,000*	37.9	204.2	9,400*	200
205	29.0	178.1	8,700*	31.4	185.6	8,800*	35.7	197.4	9,200*	205
210	26.1	168.2	8,500*	28.7	176.7	8,700*	33.3	189.9	9,000*	210
215	22.9	156.9	8,400*	25.8	166.7	8,500*	30.8	181.7	8,800*	215
220	19.2	143.4	8,200*	22.6	155.2	8,400*	28.1	172.6	8,700*	220
225	14.5	126.1	8,100*	18.8	141.5	8,200*	25.2	162.3	8,500*	225
230	7.1	98.1	7,800*	14.0	123.7	8,100*	21.8	150.4	8,400*	230
235				6.0	93.1	8,100*	17.9	136.1	8,200*	235
240							12.7	116.9	8,100*	240



ANSI B30.5

14000 S-2



65.6 ft

170 ft

60 ft

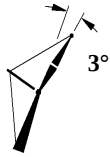
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.4	295.1	15,000*							75
80	73.1	293.6	14,700*							80
85	71.8	292.0	14,400*							85
90	70.5	290.2	14,200*							90
95	69.2	288.3	13,900*	70.4	289.5	14,000*				95
100	67.8	286.3	13,600*	69.1	287.6	13,800*				100
105	66.5	284.1	13,400*	67.7	285.5	13,500*				105
110	65.1	281.8	13,100*	66.4	283.3	13,300*				110
115	63.8	279.3	12,900*	65.0	281.0	13,100*				115
120	62.3	276.7	12,700*	63.6	278.5	12,800*				120
125	60.9	273.9	12,500*	62.2	275.9	12,600*				125
130	59.5	271.0	12,300*	60.8	273.1	12,400*				130
135	58.0	267.9	12,000*	59.4	270.2	12,200*	61.9	273.3	12,300*	135
140	56.5	264.6	11,700*	57.9	267.0	12,000*	60.5	270.4	12,100*	140
145	55.0	261.1	11,400*	56.4	263.7	11,700*	59.0	267.4	12,000*	145
150	53.5	257.4	11,100*	54.9	260.2	11,400*	57.6	264.3	11,800*	150
155	51.9	253.5	10,800*	53.3	256.5	11,100*	56.1	260.9	11,600*	155
160	50.3	249.4	10,500*	51.8	252.6	10,800*	54.6	257.4	11,300*	160
165	48.7	245.0	10,200*	50.2	248.4	10,500*	53.0	253.6	11,000*	165
170	47.0	240.4	10,000*	48.5	244.0	10,200*	51.4	249.7	10,700*	170
175	45.2	235.4	9,700*	46.8	239.4	10,000*	49.8	245.4	10,400*	175
180	43.4	230.2	9,500*	45.1	234.4	9,700*	48.2	241.0	10,200*	180
185	41.6	224.6	9,300*	43.3	229.1	9,500*	46.4	236.3	9,900*	185
190	39.6	218.6	9,100*	41.4	223.5	9,300*	44.7	231.3	9,700*	190
195	37.6	212.2	8,900*	39.5	217.5	9,100*	42.9	225.9	9,500*	195
200	35.5	205.3	8,700*	37.4	211.1	8,900*	41.0	220.2	9,200*	200
205	33.3	197.8	8,500*	35.3	204.1	8,700*	39.0	214.1	9,000*	205
210	30.9	189.6	8,400*	33.1	196.6	8,500*	37.0	207.6	8,900*	210
215	28.3	180.6	8,200*	30.7	188.3	8,400*	34.8	200.5	8,700*	215
220	25.5	170.4	8,100*	28.1	179.2	8,200*	32.6	192.8	8,500*	220
225	22.4	158.8	8,000*	25.2	168.9	8,100*	30.1	184.4	8,400*	225
230	18.7	145.0	7,800*	22.1	157.1	8,000*	27.5	175.0	8,200*	230
235	14.2	127.3	7,700*	18.4	143.1	7,800*	24.6	164.5	8,100*	235
240	6.9	98.6	6,700*	13.7	124.8	7,700*	21.3	152.3	7,900*	240
245				5.8	93.6	7,200*	17.5	137.5	7,800*	245
250							12.4	117.9	7,700*	250

14000 S-2

ANSI B30.5



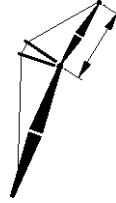
138
+
135
+
76



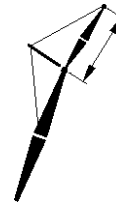
168,000 lb
+
53,000 lb



85.3 ft



140 ft



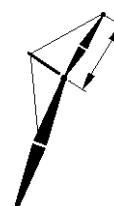
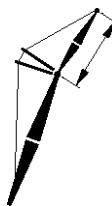
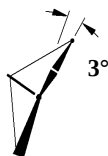
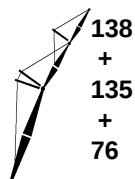
30 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
60	74.1	257.0	28,300*							60
65	72.3	255.4	28,000*							65
70	70.6	253.7	27,600*							70
75	68.8	251.8	27,300*	70.9	253.3	27,700*				75
80	66.9	249.7	27,000*	69.1	251.4	27,400*				80
85	65.1	247.4	26,800*	67.3	249.4	27,200*				85
90	63.2	244.9	26,500*	65.4	247.1	26,900*				90
95	61.3	242.2	25,700*	63.6	244.7	26,600*				95
100	59.4	239.3	24,700*	61.7	242.0	25,900*				100
105	57.4	236.1	23,800*	59.7	239.2	24,900*				105
110	55.4	232.8	23,000*	57.8	236.1	24,000*	62.3	240.4	26,200*	110
115	53.3	229.1	22,200*	55.8	232.7	23,200*	60.4	237.6	25,200*	115
120	51.2	225.1	21,500*	53.7	229.1	22,400*	58.4	234.5	24,300*	120
125	49.0	220.9	20,800*	51.6	225.2	21,700*	56.4	231.3	23,400*	125
130	46.7	216.2	20,200*	49.4	221.0	21,000*	54.4	227.7	22,700*	130
135	44.3	211.2	19,600*	47.1	216.4	20,400*	52.3	223.9	21,900*	135
140	41.8	205.8	19,100*	44.7	211.5	19,800*	50.1	219.8	21,300*	140
145	39.2	199.8	18,600*	42.3	206.1	19,300*	47.8	215.4	20,600*	145
150	36.4	193.2	18,200*	39.7	200.3	18,800*	45.5	210.6	20,000*	150
155	33.5	185.9	17,800*	37.0	193.8	18,300*	43.1	205.3	19,500*	155
160	30.2	177.7	17,400*	34.0	186.6	17,900*	40.5	199.6	19,000*	160
165	26.7	168.2	17,000*	30.9	178.6	17,500*	37.9	193.4	18,500*	165
170	22.5	157.0	16,700*	27.4	169.4	17,100*	35.0	186.5	18,100*	170
175	17.5	142.9	16,500*	23.4	158.6	16,800*	31.9	178.7	17,700*	175
180	10.2	121.7	15,600*	18.5	145.1	16,500*	28.5	170.0	17,300*	180
185				11.9	126.0	16,300*	24.7	159.7	17,000*	185
190							20.2	147.3	16,700*	190
195							14.4	130.7	16,400*	195



ANSI B30.5

14000 S-2



85.3 ft

150 ft

30 ft

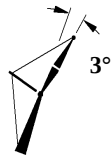
	87°			83°			75°			
	ft	°	ft	lb	°	ft	lb	°	ft	lb
60	75.0	267.4	27,900*							60
65	73.3	265.9	27,600*							65
70	71.7	264.3	27,300*							70
75	70.0	262.5	27,000*							75
80	68.3	260.5	26,700*	70.3	262.1	27,000*				80
85	66.6	258.4	26,400*	68.6	260.2	26,800*				85
90	64.8	256.1	26,200*	66.9	258.1	26,500*				90
95	63.0	253.6	25,300*	65.1	255.8	26,300*				95
100	61.2	250.9	24,300*	63.4	253.4	25,500*				100
105	59.4	248.0	23,500*	61.6	250.7	24,600*				105
110	57.5	244.8	22,700*	59.8	247.8	23,700*				110
115	55.6	241.5	21,900*	57.9	244.7	22,900*	62.2	249.0	24,800*	115
120	53.7	237.8	21,200*	56.0	241.4	22,100*	60.3	246.2	23,900*	120
125	51.7	234.0	20,600*	54.0	237.9	21,400*	58.5	243.2	23,100*	125
130	49.6	229.8	20,000*	52.0	234.0	20,800*	56.6	239.9	22,300*	130
135	47.5	225.3	19,400*	50.0	229.9	20,100*	54.7	236.5	21,600*	135
140	45.3	220.4	18,900*	47.9	225.4	19,600*	52.7	232.7	21,000*	140
145	43.0	215.2	18,400*	45.7	220.7	19,100*	50.7	228.7	20,400*	145
150	40.6	209.5	18,000*	43.4	215.5	18,600*	48.6	224.4	19,800*	150
155	38.0	203.2	17,600*	41.0	209.9	18,100*	46.4	219.7	19,300*	155
160	35.4	196.4	17,200*	38.5	203.8	17,700*	44.2	214.6	18,800*	160
165	32.5	188.8	16,800*	35.9	197.0	17,300*	41.8	209.2	18,300*	165
170	29.4	180.3	16,500*	33.0	189.6	16,900*	39.4	203.2	17,900*	170
175	25.9	170.5	16,200*	30.0	181.3	16,600*	36.8	196.7	17,500*	175
180	21.9	158.9	15,900*	26.6	171.8	16,300*	34.0	189.5	17,100*	180
185	17.0	144.3	15,700*	22.7	160.6	16,000*	31.0	181.5	16,700*	185
190	9.9	122.5	14,100*	18.0	146.7	15,800*	27.7	172.4	16,400*	190
195				11.6	127.0	15,600*	24.0	161.8	16,200*	195
200							19.6	149.0	15,900*	200
205							14.0	131.9	15,700*	205

14000 S-2

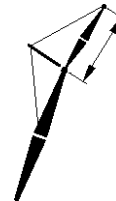
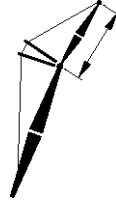
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



85.3 ft

160 ft

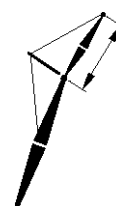
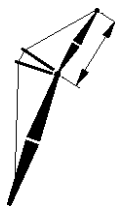
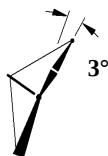
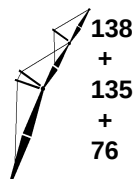
30 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	74.2	276.4	27,000*							65
70	72.7	274.8	26,700*							70
75	71.1	273.1	26,400*							75
80	69.5	271.3	26,200*							80
85	67.9	269.3	25,900*	69.8	271.0	26,200*				85
90	66.2	267.1	25,700*	68.2	269.0	26,000*				90
95	64.6	264.8	24,800*	66.5	266.9	25,800*				95
100	62.9	262.2	23,900*	64.9	264.5	25,000*				100
105	61.2	259.5	23,100*	63.2	262.0	24,100*				105
110	59.5	256.6	22,300*	61.5	259.4	23,300*				110
115	57.7	253.5	21,600*	59.8	256.5	22,500*				115
120	55.9	250.2	21,000*	58.0	253.4	21,800*	62.0	257.7	23,500*	120
125	54.0	246.6	20,300*	56.2	250.1	21,100*	60.3	254.9	22,700*	125
130	52.1	242.8	19,800*	54.4	246.6	20,500*	58.6	251.9	22,000*	130
135	50.2	238.7	19,200*	52.5	242.8	19,900*	56.8	248.6	21,300*	135
140	48.2	234.3	18,700*	50.6	238.8	19,400*	55.0	245.2	20,700*	140
145	46.1	229.6	18,300*	48.6	234.4	18,900*	53.1	241.5	20,100*	145
150	44.0	224.5	17,900*	46.5	229.8	18,400*	51.2	237.5	19,600*	150
155	41.8	219.0	17,400*	44.4	224.8	18,000*	49.2	233.3	19,100*	155
160	39.5	213.1	17,100*	42.2	219.4	17,600*	47.2	228.7	18,600*	160
165	37.0	206.6	16,700*	39.9	213.5	17,200*	45.1	223.8	18,100*	165
170	34.4	199.5	16,400*	37.5	207.1	16,800*	42.9	218.6	17,700*	170
175	31.6	191.6	16,100*	34.9	200.2	16,500*	40.6	212.9	17,300*	175
180	28.6	182.8	15,800*	32.1	192.5	16,200*	38.3	206.7	17,000*	180
185	25.2	172.7	15,600*	29.1	183.9	15,900*	35.7	199.9	16,600*	185
190	21.3	160.8	15,300*	25.8	174.0	15,600*	33.0	192.5	16,300*	190
195	16.5	145.8	15,100*	22.0	162.5	15,400*	30.1	184.2	16,000*	195
200	9.6	123.3	12,500*	17.5	148.2	15,200*	26.9	174.8	15,800*	200
205				11.2	127.9	14,200*	23.3	163.9	15,500*	205
210							19.1	150.7	15,100	210
215							13.6	133.0	14,500	215



ANSI B30.5

14000 S-2



85.3 ft

170 ft

30 ft

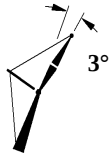
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	73.6	285.3	25,800*							70
75	72.1	283.7	25,200*							75
80	70.6	282.0	24,800*							80
85	69.0	280.1	24,500*	70.8	281.6	24,500*				85
90	67.5	278.0	24,200*	69.3	279.8	24,200*				90
95	65.9	275.8	23,800*	67.8	277.7	23,800*				95
100	64.3	273.5	23,400*	66.2	275.6	23,500*				100
105	62.8	270.9	22,600*	64.6	273.2	23,200*				105
110	61.1	268.2	21,900*	63.0	270.7	22,800*				110
115	59.5	265.3	21,200*	61.4	268.0	22,000*				115
120	57.8	262.2	20,600*	59.8	265.1	21,400*				120
125	56.1	258.9	20,000*	58.1	262.1	20,700*	62.0	266.3	21,500*	125
130	54.3	255.3	19,400*	56.4	258.8	20,100*	60.3	263.5	21,300*	130
135	52.5	251.6	18,900*	54.7	255.3	19,600*	58.7	260.5	20,900*	135
140	50.7	247.5	18,400*	52.9	251.6	19,100*	57.0	257.3	20,300*	140
145	48.8	243.2	18,000*	51.1	247.6	18,600*	55.2	253.9	19,700*	145
150	46.9	238.6	17,600*	49.2	243.4	18,100*	53.5	250.2	19,200*	150
155	44.9	233.7	17,200*	47.3	238.8	17,700*	51.7	246.4	18,700*	155
160	42.8	228.4	16,800*	45.3	233.9	17,300*	49.8	242.2	18,300*	160
165	40.7	222.7	16,500*	43.2	228.7	16,900*	47.9	237.7	17,800*	165
170	38.4	216.5	16,200*	41.1	223.1	16,600*	45.9	233.0	17,400*	170
175	36.0	209.8	15,900*	38.8	217.0	16,300*	43.9	227.9	17,100*	175
180	33.5	202.5	15,600*	36.5	210.4	16,000*	41.8	222.4	16,700*	180
185	30.8	194.4	15,300*	34.0	203.2	15,700*	39.6	216.5	16,400*	185
190	27.8	185.3	15,100*	31.3	195.3	15,400*	37.2	210.1	16,100*	190
195	24.5	174.9	14,900*	28.4	186.4	15,200*	34.8	203.1	15,800*	195
200	20.7	162.6	14,300*	25.1	176.2	15,000*	32.2	195.4	15,500*	200
205	16.1	147.1	13,600*	21.5	164.4	14,500*	29.4	186.8	15,300*	205
210	9.4	124.1	11,000*	17.0	149.6	13,800*	26.2	177.1	14,900	210
215				10.9	128.8	12,700*	22.7	165.9	14,300	215
220							18.6	152.3	13,700	220
225							13.2	134.2	13,200	225

14000 S-2

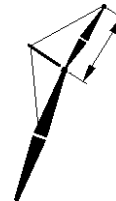
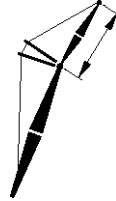
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



85.3 ft

140 ft

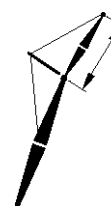
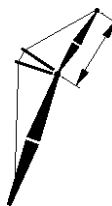
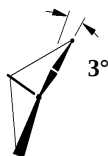
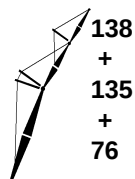
40 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	73.8	265.9	23,300*							65
70	72.1	264.2	23,000*							70
75	70.4	262.4	22,700*							75
80	68.7	260.5	22,400*	70.7	262.1	22,800*				80
85	67.0	258.3	22,100*	69.0	260.2	22,500*				85
90	65.2	256.0	21,900*	67.3	258.1	22,200*				90
95	63.5	253.5	21,500*	65.6	255.8	22,000*				95
100	61.7	250.8	20,700*	63.8	253.3	21,700*				100
105	59.8	247.9	19,900*	62.0	250.6	20,900*				105
110	58.0	244.8	19,200*	60.2	247.8	20,100*				110
115	56.0	241.4	18,500*	58.3	244.7	19,300*	62.6	249.0	21,100*	115
120	54.1	237.8	17,900*	56.4	241.4	18,700*	60.8	246.1	20,300*	120
125	52.1	233.9	17,300*	54.5	237.8	18,100*	58.9	243.1	19,600*	125
130	50.0	229.7	16,800*	52.5	233.9	17,500*	57.0	239.9	18,900*	130
135	47.9	225.2	16,300*	50.4	229.8	16,900*	55.1	236.4	18,300*	135
140	45.7	220.4	15,900*	48.3	225.4	16,400*	53.1	232.6	17,700*	140
145	43.4	215.1	15,400*	46.1	220.6	16,000*	51.1	228.6	17,100*	145
150	41.0	209.4	15,000*	43.8	215.4	15,600*	49.0	224.3	16,600*	150
155	38.5	203.2	14,700*	41.4	209.8	15,100*	46.8	219.6	16,200*	155
160	35.8	196.3	14,300*	38.9	203.7	14,800*	44.6	214.6	15,700*	160
165	32.9	188.7	14,000*	36.3	196.9	14,400*	42.2	209.1	15,300*	165
170	29.8	180.2	13,700*	33.4	189.5	14,100*	39.8	203.1	14,900*	170
175	26.3	170.4	13,500*	30.4	181.2	13,800*	37.2	196.6	14,600*	175
180	22.3	158.8	13,200*	27.0	171.6	13,500*	34.4	189.4	14,200*	180
185	17.4	144.1	13,000*	23.1	160.4	13,300*	31.4	181.4	13,900*	185
190	10.2	122.2	12,900*	18.4	146.5	13,100*	28.1	172.3	13,700*	190
195				11.9	126.7	12,900*	24.4	161.7	13,400*	195
200							20.0	148.8	13,200*	200
205							14.3	131.6	13,000*	205



ANSI B30.5

14000 S-2



85.3 ft

150 ft

40 ft

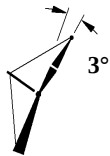
	87°			83°			75°			
	ft	°	ft	lb	°	ft	lb	ft	lb	ft
65	74.6	276.3	23,000*							65
70	73.1	274.8	22,700*							70
75	71.5	273.1	22,400*							75
80	69.9	271.2	22,200*							80
85	68.3	269.2	21,900*	70.2	270.9	22,200*				85
90	66.6	267.0	21,600*	68.6	268.9	22,000*				90
95	65.0	264.7	21,100*	66.9	266.8	21,800*				95
100	63.3	262.2	20,300*	65.3	264.5	21,300*				100
105	61.6	259.5	19,600*	63.6	262.0	20,500*				105
110	59.8	256.6	18,900*	61.9	259.3	19,800*				110
115	58.1	253.4	18,300*	60.2	256.4	19,100*				115
120	56.3	250.1	17,700*	58.4	253.4	18,400*	62.5	257.6	20,000*	120
125	54.4	246.5	17,100*	56.6	250.1	17,800*	60.7	254.8	19,300*	125
130	52.5	242.7	16,600*	54.8	246.5	17,200*	59.0	251.8	18,600*	130
135	50.6	238.6	16,100*	52.9	242.7	16,700*	57.2	248.6	18,000*	135
140	48.6	234.2	15,700*	51.0	238.7	16,200*	55.4	245.1	17,400*	140
145	46.5	229.5	15,200*	49.0	234.4	15,800*	53.5	241.4	16,900*	145
150	44.4	224.4	14,900*	46.9	229.7	15,400*	51.6	237.5	16,400*	150
155	42.2	218.9	14,500*	44.8	224.7	15,000*	49.6	233.2	16,000*	155
160	39.8	213.0	14,200*	42.6	219.3	14,600*	47.6	228.7	15,500*	160
165	37.4	206.5	13,800*	40.3	213.4	14,200*	45.5	223.8	15,100*	165
170	34.8	199.4	13,500*	37.8	207.1	13,900*	43.3	218.5	14,700*	170
175	32.0	191.5	13,300*	35.3	200.1	13,600*	41.0	212.8	14,400*	175
180	28.9	182.7	13,000*	32.5	192.4	13,300*	38.6	206.6	14,100*	180
185	25.5	172.6	12,800*	29.5	183.7	13,100*	36.1	199.8	13,800*	185
190	21.6	160.6	12,600*	26.2	173.9	12,800*	33.4	192.4	13,500*	190
195	16.9	145.6	12,400*	22.4	162.3	12,600*	30.5	184.1	13,200*	195
200	9.9	123.0	12,300*	17.9	148.0	12,500*	27.3	174.7	13,000*	200
205				11.6	127.6	12,300*	23.7	163.8	12,700*	205
210							19.5	150.5	12,500*	210
215							13.9	132.8	12,400*	215

14000 S-2

ANSI B30.5



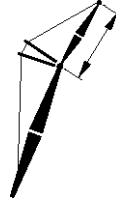
138
+
135
+
76



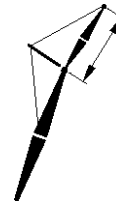
168,000 lb
+
53,000 lb



85.3 ft



160 ft



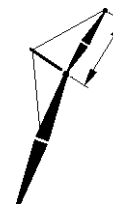
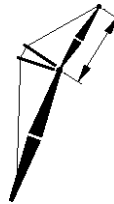
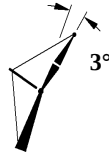
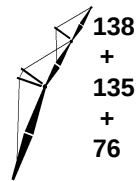
40 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	73.9	285.2	22,300*							70
75	72.4	283.6	22,000*							75
80	70.9	281.9	21,800*							80
85	69.4	280.0	21,500*							85
90	67.9	278.0	21,300*	69.7	279.7	21,600*				90
95	66.3	275.8	20,800*	68.1	277.7	21,400*				95
100	64.7	273.4	20,000*	66.6	275.5	20,900*				100
105	63.1	270.9	19,300*	65.0	273.2	20,200*				105
110	61.5	268.1	18,600*	63.4	270.7	19,400*				110
115	59.8	265.2	18,000*	61.8	268.0	18,800*				115
120	58.2	262.1	17,400*	60.2	265.1	18,100*				120
125	56.5	258.8	16,900*	58.5	262.0	17,600*	62.3	266.3	18,900*	125
130	54.7	255.3	16,400*	56.8	258.8	17,000*	60.7	263.5	18,300*	130
135	52.9	251.5	15,900*	55.0	255.2	16,500*	59.0	260.5	17,700*	135
140	51.1	247.4	15,500*	53.3	251.5	16,000*	57.3	257.2	17,200*	140
145	49.2	243.1	15,100*	51.4	247.5	15,600*	55.6	253.8	16,700*	145
150	47.3	238.6	14,700*	49.6	243.3	15,200*	53.8	250.2	16,200*	150
155	45.3	233.6	14,300*	47.6	238.7	14,800*	52.0	246.3	15,800*	155
160	43.2	228.3	14,000*	45.6	233.9	14,400*	50.2	242.1	15,300*	160
165	41.0	222.6	13,700*	43.6	228.6	14,100*	48.3	237.7	14,900*	165
170	38.8	216.4	13,400*	41.4	223.0	13,800*	46.3	232.9	14,600*	170
175	36.4	209.8	13,100*	39.2	216.9	13,500*	44.3	227.8	14,200*	175
180	33.8	202.4	12,900*	36.8	210.4	13,200*	42.1	222.3	13,900*	180
185	31.1	194.3	12,600*	34.3	203.1	13,000*	39.9	216.4	13,600*	185
190	28.2	185.2	12,400*	31.6	195.2	12,700*	37.6	210.0	13,300*	190
195	24.9	174.8	12,200*	28.7	186.2	12,500*	35.2	203.0	13,100*	195
200	21.1	162.4	12,100*	25.5	176.1	12,300*	32.5	195.3	12,800*	200
205	16.4	146.9	11,900*	21.8	164.2	12,100*	29.7	186.7	12,600*	205
210	9.7	123.8	11,600*	17.4	149.5	12,000*	26.6	177.0	12,400*	210
215				11.2	128.6	11,800*	23.1	165.7	12,200*	215
220							18.9	152.1	12,000*	220
225							13.6	133.9	11,900*	225



ANSI B30.5

14000 S-2



85.3 ft

170 ft

40 ft

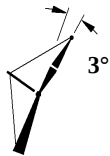
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.7	295.7	21,800*							70
75	73.3	294.2	21,600*							75
80	71.9	292.5	21,300*							80
85	70.4	290.7	21,100*							85
90	69.0	288.8	20,900*	70.7	290.4	21,100*				90
95	67.5	286.7	20,300*	69.2	288.5	20,900*				95
100	66.0	284.5	19,600*	67.8	286.4	20,500*				100
105	64.5	282.1	18,900*	66.3	284.2	19,700*				105
110	63.0	279.5	18,200*	64.8	281.9	19,000*				110
115	61.4	276.8	17,600*	63.3	279.3	18,400*				115
120	59.9	273.9	17,100*	61.7	276.6	17,800*				120
125	58.3	270.8	16,600*	60.2	273.8	17,200*				125
130	56.6	267.5	16,100*	58.5	270.7	16,700*	62.2	274.9	17,900*	130
135	55.0	264.0	15,600*	56.9	267.4	16,200*	60.7	272.1	17,400*	135
140	53.3	260.3	15,200*	55.3	264.0	15,700*	59.1	269.1	16,800*	140
145	51.5	256.3	14,800*	53.6	260.3	15,300*	57.5	265.9	16,400*	145
150	49.8	252.1	14,500*	51.9	256.4	14,900*	55.8	262.5	15,900*	150
155	47.9	247.6	14,100*	50.1	252.2	14,500*	54.1	258.9	15,500*	155
160	46.1	242.8	13,800*	48.3	247.7	14,200*	52.4	255.1	15,100*	160
165	44.1	237.6	13,500*	46.4	243.0	13,900*	50.7	251.0	14,700*	165
170	42.1	232.1	13,200*	44.5	237.9	13,600*	48.9	246.6	14,300*	170
175	40.0	226.2	12,900*	42.5	232.5	13,300*	47.0	242.0	14,000*	175
180	37.8	219.8	12,700*	40.4	226.7	13,000*	45.1	237.0	13,700*	180
185	35.5	212.9	12,400*	38.2	220.4	12,700*	43.1	231.7	13,400*	185
190	33.0	205.3	12,200*	35.9	213.6	12,500*	41.1	226.0	13,100*	190
195	30.3	196.9	12,000*	33.5	206.1	12,300*	38.9	219.9	12,900*	195
200	27.5	187.6	11,800*	30.8	197.9	12,100*	36.7	213.2	12,600*	200
205	24.2	176.9	11,700*	28.0	188.7	11,900*	34.3	206.0	12,400*	205
210	20.5	164.2	11,500*	24.9	178.3	11,700*	31.7	198.1	12,200*	210
215	16.0	148.3	11,400*	21.3	166.0	11,600*	29.0	189.2	12,000*	215
220	9.4	124.5	10,200*	16.9	150.9	11,400*	25.9	179.2	11,800*	220
225				10.9	129.4	11,300*	22.5	167.7	11,600*	225
230							18.5	153.7	11,500*	230
235							13.2	135.0	11,400*	235

14000 S-2

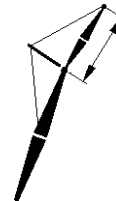
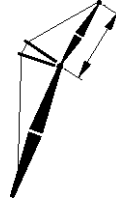
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb

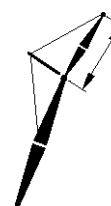
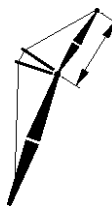
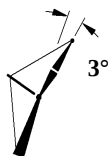
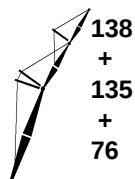


85.3 ft

140 ft

50 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	74.7	276.3	20,000*							65
70	73.2	274.8	19,700*							70
75	71.6	273.1	19,400*							75
80	70.0	271.2	19,100*							80
85	68.4	269.2	18,800*	70.3	270.9	19,200*				85
90	66.7	267.1	18,500*	68.7	268.9	18,900*				90
95	65.1	264.7	18,300*	67.0	266.8	18,600*				95
100	63.4	262.2	18,000*	65.4	264.5	18,400*				100
105	61.7	259.5	17,500*	63.7	262.0	18,100*				105
110	59.9	256.6	16,800*	62.0	259.3	17,600*				110
115	58.2	253.4	16,200*	60.3	256.4	17,000*				115
120	56.4	250.1	15,600*	58.5	253.4	16,400*	62.5	257.6	17,800*	120
125	54.5	246.5	15,100*	56.7	250.1	15,800*	60.8	254.8	17,200*	125
130	52.6	242.7	14,700*	54.9	246.5	15,300*	59.1	251.8	16,600*	130
135	50.7	238.6	14,200*	53.0	242.8	14,800*	57.3	248.6	16,000*	135
140	48.7	234.2	13,800*	51.0	238.7	14,300*	55.5	245.1	15,400*	140
145	46.6	229.5	13,400*	49.1	234.4	13,900*	53.6	241.4	14,900*	145
150	44.5	224.4	13,000*	47.0	229.7	13,500*	51.7	237.5	14,500*	150
155	42.3	218.9	12,700*	44.9	224.7	13,100*	49.7	233.2	14,100*	155
160	39.9	213.0	12,400*	42.7	219.3	12,800*	47.7	228.7	13,600*	160
165	37.5	206.5	12,100*	40.4	213.4	12,400*	45.6	223.8	13,300*	165
170	34.9	199.4	11,800*	37.9	207.1	12,100*	43.4	218.5	12,900*	170
175	32.1	191.6	11,500*	35.4	200.1	11,900*	41.1	212.8	12,600*	175
180	29.0	182.7	11,300*	32.6	192.4	11,600*	38.7	206.6	12,300*	180
185	25.6	172.6	11,100*	29.6	183.8	11,300*	36.2	199.9	12,000*	185
190	21.8	160.7	10,900*	26.3	173.9	11,100*	33.5	192.4	11,700*	190
195	17.0	145.6	10,700*	22.5	162.4	10,900*	30.6	184.1	11,400*	195
200	10.1	123.1	10,600*	18.0	148.0	10,700*	27.4	174.7	11,200*	200
205				11.7	127.7	10,600*	23.8	163.8	11,000*	205
210							19.6	150.5	10,800*	210
215							14.0	132.8	10,700*	215



85.3 ft

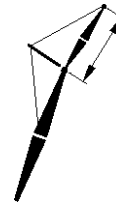
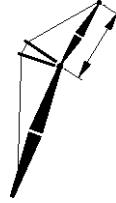
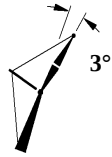
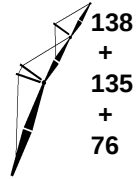
150 ft

50 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.0	285.2	19,400*							70
75	72.5	283.6	19,100*							75
80	71.0	281.9	18,900*							80
85	69.5	280.0	18,600*							85
90	67.9	278.0	18,400*	69.8	279.7	18,700*				90
95	66.4	275.8	18,100*	68.2	277.7	18,400*				95
100	64.8	273.4	17,900*	66.7	275.5	18,200*				100
105	63.2	270.9	17,200*	65.1	273.2	18,000*				105
110	61.6	268.1	16,600*	63.5	270.7	17,300*				110
115	59.9	265.2	16,000*	61.9	268.0	16,700*				115
120	58.3	262.1	15,400*	60.2	265.1	16,100*				120
125	56.5	258.8	14,900*	58.6	262.0	15,600*	62.4	266.3	16,900*	125
130	54.8	255.3	14,500*	56.9	258.8	15,000*	60.8	263.5	16,300*	130
135	53.0	251.5	14,000*	55.1	255.3	14,600*	59.1	260.5	15,700*	135
140	51.2	247.5	13,600*	53.3	251.5	14,100*	57.4	257.3	15,200*	140
145	49.3	243.2	13,200*	51.5	247.6	13,700*	55.7	253.8	14,700*	145
150	47.4	238.6	12,900*	49.7	243.3	13,300*	53.9	250.2	14,300*	150
155	45.4	233.6	12,500*	47.7	238.8	12,900*	52.1	246.3	13,900*	155
160	43.3	228.3	12,200*	45.7	233.9	12,600*	50.3	242.1	13,500*	160
165	41.1	222.6	11,900*	43.7	228.7	12,300*	48.4	237.7	13,100*	165
170	38.9	216.5	11,600*	41.5	223.0	12,000*	46.4	232.9	12,700*	170
175	36.5	209.8	11,400*	39.3	217.0	11,700*	44.4	227.8	12,400*	175
180	33.9	202.4	11,100*	36.9	210.4	11,400*	42.2	222.3	12,100*	180
185	31.2	194.3	10,900*	34.4	203.1	11,200*	40.0	216.4	11,800*	185
190	28.3	185.2	10,700*	31.7	195.2	11,000*	37.7	210.0	11,500*	190
195	25.0	174.8	10,500*	28.8	186.3	10,700*	35.2	203.0	11,300*	195
200	21.2	162.5	10,300*	25.6	176.1	10,500*	32.6	195.3	11,100*	200
205	16.5	147.0	10,200*	21.9	164.2	10,400*	29.8	186.7	10,800*	205
210	9.8	123.8	10,100*	17.5	149.5	10,200*	26.7	177.0	10,600*	210
215				11.4	128.6	10,100*	23.2	165.8	10,400*	215
220							19.0	152.1	10,300*	220
225							13.7	133.9	10,100*	225

14000 S-2

ANSI B30.5

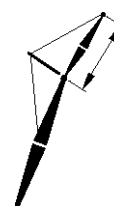
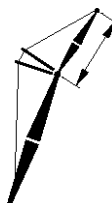
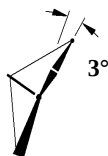
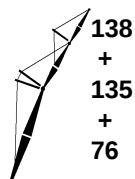


85.3 ft

160 ft

50 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.8	295.7	19,100*							70
75	73.4	294.2	18,800*							75
80	71.9	292.5	18,600*							80
85	70.5	290.7	18,300*							85
90	69.1	288.8	18,100*	70.8	290.4	18,400*				90
95	67.6	286.7	17,900*	69.3	288.5	18,200*				95
100	66.1	284.5	17,600*	67.9	286.4	18,000*				100
105	64.6	282.1	16,900*	66.4	284.2	17,700*				105
110	63.1	279.5	16,300*	64.9	281.9	17,100*				110
115	61.5	276.8	15,700*	63.3	279.3	16,400*				115
120	60.0	273.9	15,200*	61.8	276.6	15,900*				120
125	58.3	270.8	14,700*	60.2	273.8	15,300*				125
130	56.7	267.5	14,300*	58.6	270.7	14,800*	62.3	275.0	16,000*	130
135	55.1	264.0	13,800*	57.0	267.4	14,400*	60.8	272.1	15,500*	135
140	53.4	260.3	13,400*	55.4	264.0	13,900*	59.2	269.1	15,000*	140
145	51.6	256.3	13,100*	53.7	260.3	13,500*	57.5	265.9	14,500*	145
150	49.9	252.1	12,700*	52.0	256.4	13,200*	55.9	262.5	14,100*	150
155	48.0	247.6	12,400*	50.2	252.2	12,800*	54.2	258.9	13,700*	155
160	46.2	242.8	12,100*	48.4	247.8	12,500*	52.5	255.1	13,300*	160
165	44.2	237.6	11,800*	46.5	243.0	12,100*	50.8	251.0	12,900*	165
170	42.2	232.1	11,500*	44.6	237.9	11,800*	49.0	246.6	12,600*	170
175	40.1	226.2	11,200*	42.6	232.5	11,600*	47.1	242.0	12,300*	175
180	37.9	219.9	11,000*	40.5	226.7	11,300*	45.2	237.1	12,000*	180
185	35.5	212.9	10,800*	38.3	220.4	11,100*	43.2	231.7	11,700*	185
190	33.1	205.3	10,600*	36.0	213.6	10,800*	41.2	226.0	11,400*	190
195	30.4	197.0	10,400*	33.5	206.1	10,600*	39.0	219.9	11,200*	195
200	27.5	187.6	10,200*	30.9	197.9	10,400*	36.8	213.3	10,900*	200
205	24.3	176.9	10,000*	28.1	188.7	10,200*	34.4	206.0	10,700*	205
210	20.6	164.2	9,900*	25.0	178.3	10,100*	31.8	198.1	10,500*	210
215	16.1	148.3	9,700*	21.4	166.1	9,900*	29.0	189.2	10,300*	215
220	9.5	124.6	9,600*	17.0	150.9	9,800*	26.0	179.2	10,100*	220
225				11.1	129.5	9,700*	22.6	167.7	10,000*	225
230							18.5	153.7	9,800*	230
235							13.3	135.1	9,700*	235



85.3 ft

170 ft

50 ft

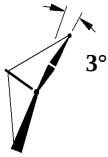
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.2	304.6	18,400*							75
80	72.8	303.1	18,200*							80
85	71.4	301.4	17,900*							85
90	70.1	299.5	17,600*							90
95	68.7	297.6	17,300*	70.3	299.2	17,400*				95
100	67.2	295.4	17,000*	68.9	297.2	17,200*				100
105	65.8	293.2	16,600*	67.5	295.2	16,900*				105
110	64.4	290.8	16,000*	66.1	292.9	16,700*				110
115	62.9	288.2	15,400*	64.7	290.5	16,100*				115
120	61.5	285.5	14,900*	63.2	288.0	15,600*				120
125	60.0	282.5	14,500*	61.7	285.3	15,000*				125
130	58.4	279.5	14,000*	60.2	282.4	14,600*				130
135	56.9	276.2	13,600*	58.7	279.4	14,100*	62.2	283.6	15,200*	135
140	55.3	272.7	13,200*	57.2	276.1	13,700*	60.7	280.8	14,700*	140
145	53.7	269.0	12,800*	55.6	272.7	13,300*	59.2	277.8	14,200*	145
150	52.0	265.1	12,500*	54.0	269.0	12,900*	57.7	274.6	13,800*	150
155	50.3	261.0	12,200*	52.3	265.2	12,600*	56.1	271.2	13,400*	155
160	48.6	256.6	11,900*	50.7	261.1	12,300*	54.5	267.7	13,100*	160
165	46.8	251.9	11,600*	49.0	256.7	11,900*	52.9	263.9	12,700*	165
170	45.0	246.9	11,300*	47.2	252.1	11,700*	51.2	259.9	12,400*	170
175	43.1	241.6	11,100*	45.4	247.1	11,400*	49.5	255.6	12,100*	175
180	41.2	235.9	10,800*	43.5	241.9	11,100*	47.8	251.0	11,800*	180
185	39.1	229.7	10,600*	41.5	236.3	10,900*	46.0	246.2	11,500*	185
190	37.0	223.1	10,400*	39.5	230.2	10,700*	44.1	241.1	11,200*	190
195	34.7	216.0	10,200*	37.4	223.7	10,400*	42.2	235.6	11,000*	195
200	32.3	208.2	10,000*	35.1	216.7	10,200*	40.2	229.6	10,800*	200
205	29.7	199.6	9,800*	32.7	209.0	10,100*	38.1	223.3	10,500*	205
210	26.9	189.9	9,700*	30.2	200.5	9,900*	35.9	216.4	10,300*	210
215	23.8	178.9	9,500*	27.4	191.1	9,700*	33.5	209.0	10,100*	215
220	20.1	165.9	9,400*	24.4	180.4	9,600*	31.0	200.8	10,000*	220
225	15.7	149.6	9,300*	20.9	167.8	9,400*	28.4	191.7	9,800*	225
230	9.3	125.3	9,200*	16.6	152.3	9,300*	25.4	181.4	9,600*	230
235				10.8	130.4	9,200*	22.0	169.6	9,500*	235
240							18.1	155.2	9,400*	240
245							13.0	136.1	9,300*	245

14000 S-2

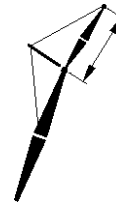
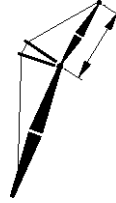
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb

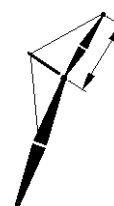
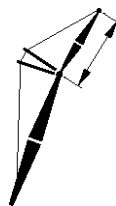
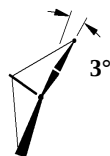
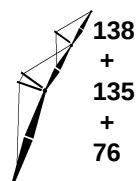


85.3 ft

140 ft

60 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	73.8	285.3	16,900*							70
75	72.3	283.7	16,500*							75
80	70.8	282.0	16,200*							80
85	69.3	280.1	15,800*							85
90	67.8	278.0	15,500*	69.6	279.8	15,800*				90
95	66.2	275.8	15,100*	68.1	277.7	15,400*				95
100	64.6	273.5	14,800*	66.5	275.6	15,100*				100
105	63.0	270.9	14,500*	64.9	273.2	14,800*				105
110	61.4	268.2	14,200*	63.3	270.7	14,500*				110
115	59.8	265.3	13,900*	61.7	268.0	14,200*				115
120	58.1	262.2	13,600*	60.1	265.1	13,900*				120
125	56.4	258.9	13,100*	58.4	262.1	13,600*	62.2	266.3	14,000*	125
130	54.6	255.3	12,700*	56.7	258.8	13,300*	60.6	263.5	13,800*	130
135	52.8	251.6	12,300*	55.0	255.3	12,800*	58.9	260.5	13,500*	135
140	51.0	247.5	12,000*	53.2	251.6	12,400*	57.2	257.3	13,300*	140
145	49.1	243.2	11,600*	51.3	247.6	12,100*	55.5	253.9	13,000*	145
150	47.2	238.6	11,300*	49.5	243.4	11,700*	53.8	250.2	12,600*	150
155	45.2	233.7	11,000*	47.5	238.8	11,400*	51.9	246.4	12,200*	155
160	43.1	228.4	10,700*	45.6	233.9	11,100*	50.1	242.2	11,900*	160
165	41.0	222.7	10,500*	43.5	228.7	10,800*	48.2	237.7	11,500*	165
170	38.7	216.5	10,200*	41.3	223.1	10,500*	46.2	233.0	11,200*	170
175	36.3	209.8	9,900*	39.1	217.0	10,300*	44.2	227.9	10,900*	175
180	33.8	202.5	9,700*	36.8	210.4	10,000*	42.1	222.4	10,600*	180
185	31.0	194.4	9,500*	34.2	203.2	9,800*	39.8	216.5	10,400*	185
190	28.1	185.3	9,300*	31.6	195.3	9,600*	37.5	210.1	10,100*	190
195	24.8	174.9	9,100*	28.7	186.4	9,300*	35.1	203.1	9,900*	195
200	21.0	162.6	8,900*	25.4	176.2	9,100*	32.5	195.4	9,700*	200
205	16.4	147.1	8,700*	21.8	164.4	9,000*	29.6	186.8	9,400*	205
210	9.7	124.1	8,600*	17.3	149.6	8,800*	26.5	177.1	9,200*	210
215				11.2	128.8	8,600*	23.0	165.9	9,000*	215
220							18.9	152.3	8,900*	220
225							13.5	134.1	8,700*	225



85.3 ft

150 ft

60 ft

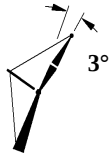
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.6	295.7	16,400*							70
75	73.2	294.2	16,100*							75
80	71.8	292.6	15,700*							80
85	70.3	290.8	15,400*							85
90	68.9	288.8	15,100*	70.6	290.4	15,400*				90
95	67.4	286.8	14,800*	69.1	288.5	15,000*				95
100	65.9	284.5	14,500*	67.7	286.5	14,700*				100
105	64.4	282.1	14,200*	66.2	284.3	14,400*				105
110	62.9	279.6	13,900*	64.7	281.9	14,100*				110
115	61.3	276.9	13,600*	63.2	279.4	13,900*				115
120	59.8	273.9	13,300*	61.6	276.7	13,600*				120
125	58.2	270.9	13,000*	60.1	273.8	13,300*				125
130	56.5	267.5	12,600*	58.5	270.8	13,100*	62.1	275.0	13,500*	130
135	54.9	264.0	12,300*	56.8	267.5	12,700*	60.6	272.2	13,200*	135
140	53.2	260.3	11,900*	55.2	264.0	12,300*	59.0	269.2	13,000*	140
145	51.5	256.4	11,600*	53.5	260.4	12,000*	57.4	266.0	12,800*	145
150	49.7	252.1	11,200*	51.8	256.4	11,600*	55.7	262.6	12,500*	150
155	47.9	247.6	11,000*	50.0	252.3	11,300*	54.1	259.0	12,100*	155
160	46.0	242.8	10,700*	48.2	247.8	11,000*	52.3	255.1	11,800*	160
165	44.0	237.7	10,400*	46.3	243.1	10,700*	50.6	251.1	11,400*	165
170	42.0	232.2	10,200*	44.4	238.0	10,500*	48.8	246.7	11,100*	170
175	39.9	226.3	9,900*	42.4	232.6	10,200*	46.9	242.1	10,800*	175
180	37.7	219.9	9,700*	40.3	226.8	10,000*	45.0	237.1	10,600*	180
185	35.4	213.0	9,500*	38.1	220.5	9,800*	43.0	231.8	10,300*	185
190	32.9	205.4	9,300*	35.8	213.6	9,500*	41.0	226.1	10,100*	190
195	30.3	197.1	9,100*	33.4	206.2	9,300*	38.8	220.0	9,900*	195
200	27.4	187.7	8,900*	30.8	198.0	9,100*	36.6	213.3	9,600*	200
205	24.2	177.0	8,700*	27.9	188.8	9,000*	34.2	206.1	9,400*	205
210	20.5	164.4	8,600*	24.8	178.4	8,800*	31.6	198.1	9,200*	210
215	16.0	148.5	8,400*	21.2	166.2	8,600*	28.9	189.3	9,000*	215
220	9.4	124.9	8,300*	16.9	151.1	8,500*	25.9	179.4	8,900*	220
225				10.9	129.7	8,300*	22.4	167.8	8,700*	225
230							18.4	153.8	8,500*	230
235							13.2	135.2	8,400*	235

14000 S-2

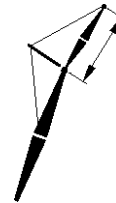
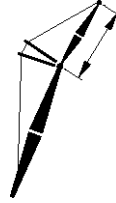
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb

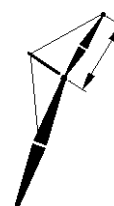
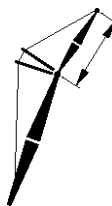
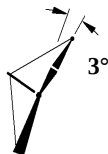
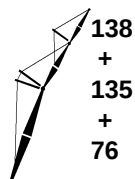


85.3 ft

160 ft

60 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.0	304.7	15,500*							75
80	72.6	303.1	15,200*							80
85	71.3	301.4	14,900*							85
90	69.9	299.6	14,600*							90
95	68.5	297.6	14,300*							95
100	67.1	295.5	14,000*	70.1	299.2	14,500*				100
105	65.7	293.2	13,800*	68.7	297.3	14,300*				105
110	64.2	290.8	13,500*	67.3	295.2	14,000*				110
115	62.8	288.2	13,300*	65.9	293.0	13,700*				115
120	61.3	285.5	13,000*	64.5	290.6	13,500*				120
125	59.8	282.6	12,800*	63.0	288.0	13,200*				125
130	58.3	279.5	12,600*	61.5	285.4	13,000*				130
135	56.7	276.2	12,200*	60.1	282.5	12,800*	62.0	283.7	12,800*	135
140	55.1	272.8	11,900*	58.5	279.4	12,600*	60.5	280.9	12,600*	140
145	53.5	269.1	11,500*	57.0	276.2	12,300*	59.0	277.9	12,400*	145
150	51.9	265.2	11,200*	55.4	272.8	11,900*				150
155	50.2	261.0	10,900*	53.8	269.1	11,600*	57.5	274.7	12,200*	155
160	48.5	256.6	10,700*	52.2	265.2	11,300*	55.9	271.3	12,000*	160
165	46.7	251.9	10,400*	50.5	261.1	11,000*	54.3	267.7	11,700*	165
170	44.8	246.9	10,200*	48.8	256.8	10,700*	52.7	263.9	11,400*	170
175	43.0	241.6	9,900*	47.0	252.1	10,500*	51.0	259.9	11,100*	175
180	41.0	235.9	9,700*	45.2	247.2	10,200*	49.3	255.6	10,800*	180
185	38.9	229.8	9,500*	43.3	242.0	10,000*	47.6	251.1	10,600*	185
190	36.8	223.2	9,300*	41.4	236.3	9,800*	45.8	246.3	10,300*	190
195	34.5	216.1	9,100*	39.3	230.3	9,500*	43.9	241.1	10,100*	195
200	32.1	208.3	8,900*	37.2	223.8	9,300*	42.0	235.6	9,800*	200
205	29.5	199.6	8,700*	35.0	216.8	9,100*	40.0	229.7	9,600*	205
210	26.7	190.0	8,600*	32.6	209.1	8,900*	37.9	223.4	9,400*	210
215	23.6	179.0	8,400*	30.0	200.6	8,800*	35.7	216.5	9,200*	215
220	20.0	166.1	8,300*	27.3	191.2	8,600*	33.4	209.1	9,000*	220
225	15.6	149.8	8,100*	24.2	180.5	8,400*	30.9	200.9	8,800*	225
230	9.2	125.6	8,100*	20.7	168.0	8,300*	28.2	191.8	8,700*	230
235				16.5	152.5	8,200*	25.2	181.6	8,500*	235
240				10.7	130.6	8,100*	21.9	169.7	8,400*	240
245							18.0	155.4	8,200*	245
							12.9	136.3	8,100*	245



85.3 ft

170 ft

60 ft

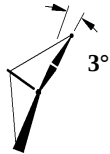
	87°			83°			75°			
	ft	°	ft	lb	°	ft	lb	°	ft	lb
75	74.7	315.1	14,800*						75	
80	73.4	313.6	14,600*						80	
85	72.1	312.0	14,300*						85	
90	70.8	310.2	14,000*						90	
95	69.5	308.4	13,800*						95	
100	68.1	306.4	13,500*	69.7	308.0	13,700*			100	
105	66.8	304.2	13,300*	68.4	306.1	13,500*			105	
110	65.4	301.9	13,100*	67.0	303.9	13,300*			110	
115	64.0	299.5	12,800*	65.7	301.7	13,000*			115	
120	62.6	296.9	12,600*	64.3	299.3	12,800*			120	
125	61.2	294.2	12,400*	62.9	296.7	12,600*			125	
130	59.8	291.3	12,200*	61.5	294.0	12,400*			130	
135	58.3	288.2	12,000*	60.0	291.1	12,200*			135	
140	56.8	284.9	11,700*	58.6	288.1	12,000*	61.9	292.3	12,200*	140
145	55.3	281.5	11,400*	57.1	284.9	11,800*	60.5	289.5	12,000*	145
150	53.8	277.8	11,100*	55.6	281.5	11,500*	59.1	286.5	11,800*	150
155	52.2	274.0	10,800*	54.1	277.9	11,200*	57.6	283.4	11,700*	155
160	50.6	269.9	10,600*	52.5	274.0	10,900*	56.1	280.0	11,500*	160
165	49.0	265.6	10,300*	50.9	270.0	10,600*	54.6	276.5	11,300*	165
170	47.3	261.0	10,000*	49.3	265.7	10,300*	53.0	272.7	11,000*	170
175	45.6	256.1	9,800*	47.6	261.2	10,100*	51.5	268.8	10,700*	175
180	43.8	251.0	9,500*	45.9	256.4	9,800*	49.8	264.5	10,400*	180
185	42.0	245.4	9,300*	44.1	251.2	9,600*	48.2	260.1	10,200*	185
190	40.0	239.6	9,100*	42.3	245.8	9,400*	46.5	255.4	9,900*	190
195	38.0	233.2	8,900*	40.4	240.0	9,200*	44.7	250.4	9,700*	195
200	36.0	226.4	8,700*	38.4	233.8	9,000*	42.9	245.0	9,500*	200
205	33.7	219.1	8,600*	36.3	227.1	8,800*	41.0	239.3	9,300*	205
210	31.4	211.0	8,400*	34.2	219.8	8,600*	39.1	233.2	9,100*	210
215	28.9	202.2	8,300*	31.8	211.9	8,500*	37.0	226.7	8,900*	215
220	26.1	192.3	8,100*	29.4	203.2	8,300*	34.9	219.6	8,700*	220
225	23.1	181.0	8,000*	26.6	193.5	8,200*	32.6	212.0	8,500*	225
230	19.5	167.8	7,900*	23.6	182.6	8,000*	30.2	203.6	8,400*	230
235	15.2	151.1	7,800*	20.2	169.7	7,900*	27.5	194.2	8,200*	235
240	9.0	126.4	7,700*	16.1	153.9	7,800*	24.7	183.7	8,100*	240
245				10.4	131.5	7,700*	21.4	171.6	8,000*	245
250							17.5	156.9	7,800*	250
255							12.6	137.4	7,700*	255

14000 S-2

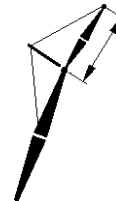
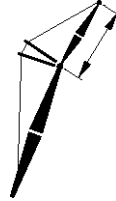
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb

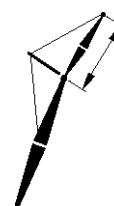
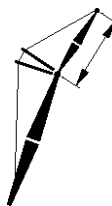
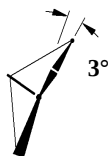
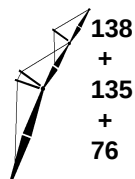


105.0 ft

140 ft

30 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
60	74.4	276.9	28,200*							60
65	72.7	275.4	27,800*							65
70	70.9	273.7	27,500*							70
75	69.1	271.8	27,200*							75
80	67.3	269.8	26,900*	69.9	271.9	27,400*				80
85	65.5	267.5	26,600*	68.2	269.9	27,100*				85
90	63.6	265.1	26,400*	66.3	267.8	26,800*				90
95	61.7	262.4	25,800*	64.5	265.4	26,600*				95
100	59.8	259.6	24,800*	62.6	262.9	26,400*				100
105	57.8	256.5	23,900*	60.7	260.1	25,300*				105
110	55.8	253.1	23,100*	58.7	257.1	24,400*				110
115	53.7	249.5	22,300*	56.7	253.9	23,500*	62.3	259.4	26,200*	115
120	51.6	245.6	21,600*	54.7	250.4	22,700*	60.4	256.6	25,200*	120
125	49.4	241.4	20,900*	52.6	246.6	22,000*	58.5	253.6	24,300*	125
130	47.2	236.9	20,300*	50.4	242.6	21,300*	56.5	250.3	23,500*	130
135	44.8	231.9	19,700*	48.2	238.2	20,700*	54.4	246.8	22,700*	135
140	42.3	226.6	19,200*	45.9	233.5	20,100*	52.3	243.0	21,900*	140
145	39.8	220.7	18,700*	43.5	228.3	19,500*	50.1	238.9	21,300*	145
150	37.0	214.3	18,300*	41.0	222.7	19,000*	47.9	234.5	20,600*	150
155	34.1	207.1	17,800*	38.3	216.5	18,500*	45.6	229.7	20,100*	155
160	30.9	199.1	17,500*	35.5	209.7	18,100*	43.1	224.5	19,500*	160
165	27.4	190.0	17,100*	32.4	202.1	17,700*	40.6	218.8	19,000*	165
170	23.5	179.2	16,800*	29.1	193.5	17,300*	37.9	212.5	18,500*	170
175	18.7	165.8	16,500*	25.4	183.6	17,000*	35.1	205.6	18,100*	175
180	12.1	146.9	16,300*	21.0	171.5	16,700*	32.0	197.9	17,700*	180
185				15.5	155.8	16,400*	28.6	189.1	17,300*	185
190				5.9	127.8	16,300*	24.8	179.0	17,000*	190
195							20.3	166.6	16,600	195
200							14.5	150.1	16,000	200
205							2.0	113.1	15,300	205



105.0 ft

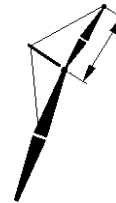
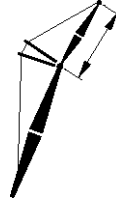
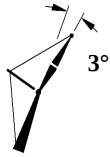
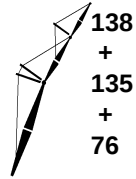
150 ft

30 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	73.7	285.9	27,400*							65
70	72.0	284.3	27,100*							70
75	70.3	282.5	26,800*							75
80	68.6	280.6	26,500*							80
85	66.9	278.5	26,300*	69.4	280.7	26,700*				85
90	65.2	276.2	26,000*	67.7	278.7	26,400*				90
95	63.4	273.8	25,400*	66.0	276.5	26,200*				95
100	61.6	271.1	24,400*	64.2	274.1	25,900*				100
105	59.8	268.2	23,600*	62.5	271.5	24,900*				105
110	57.9	265.1	22,800*	60.6	268.8	24,000*				110
115	56.0	261.8	22,000*	58.8	265.8	23,200*				115
120	54.1	258.3	21,300*	56.9	262.6	22,400*	62.2	268.1	24,700*	120
125	52.1	254.4	20,700*	55.0	259.1	21,700*	60.4	265.3	23,900*	125
130	50.0	250.3	20,100*	53.0	255.4	21,000*	58.5	262.3	23,100*	130
135	47.9	245.9	19,500*	51.0	251.4	20,400*	56.7	259.0	22,300*	135
140	45.7	241.1	19,000*	48.9	247.2	19,800*	54.7	255.5	21,600*	140
145	43.5	235.9	18,500*	46.8	242.6	19,300*	52.7	251.8	21,000*	145
150	41.1	230.3	18,100*	44.5	237.6	18,800*	50.7	247.8	20,400*	150
155	38.6	224.2	17,600*	42.2	232.2	18,300*	48.6	243.4	19,800*	155
160	35.9	217.5	17,300*	39.8	226.3	17,900*	46.5	238.8	19,300*	160
165	33.1	210.1	16,900*	37.2	219.9	17,500*	44.2	233.8	18,800*	165
170	30.0	201.8	16,600*	34.4	212.8	17,100*	41.9	228.3	18,300*	170
175	26.6	192.3	16,300*	31.5	204.9	16,800*	39.4	222.4	17,900*	175
180	22.8	181.2	16,000*	28.2	196.0	16,400*	36.8	215.9	17,500*	180
185	18.1	167.4	15,700*	24.6	185.7	16,100*	34.0	208.7	17,100*	185
190	11.8	147.9	15,600*	20.4	173.3	15,900*	31.0	200.7	16,800*	190
195				15.0	157.1	15,700*	27.8	191.6	16,500*	195
200				5.7	128.2	15,000*	24.1	181.1	15,900	200
205							19.7	168.3	15,300	205
210							14.1	151.3	14,700	210
215							1.9	113.2	14,100	215

14000 S-2

ANSI B30.5



105.0 ft

160 ft

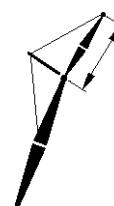
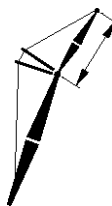
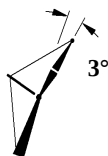
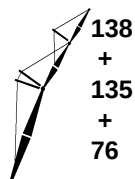
30 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	74.6	296.3	26,800*							65
70	73.0	294.8	26,500*							70
75	71.4	293.1	26,200*							75
80	69.8	291.3	26,000*							80
85	68.2	289.4	25,700*	70.5	291.4	26,100*				85
90	66.6	287.2	25,500*	68.9	289.5	25,800*				90
95	64.9	284.9	24,900*	67.3	287.4	25,600*				95
100	63.2	282.4	24,000*	65.7	285.2	25,400*				100
105	61.5	279.8	23,200*	64.0	282.8	24,500*				105
110	59.8	276.9	22,400*	62.3	280.2	23,600*				110
115	58.0	273.8	21,700*	60.6	277.4	22,800*				115
120	56.2	270.5	21,000*	58.9	274.5	22,100*				120
125	54.4	267.0	20,400*	57.1	271.3	21,400*	62.1	276.7	23,400*	125
130	52.5	263.2	19,900*	55.3	267.9	20,800*	60.4	273.9	22,700*	130
135	50.6	259.2	19,300*	53.4	264.2	20,200*	58.6	270.9	22,000*	135
140	48.6	254.9	18,800*	51.5	260.3	19,600*	56.8	267.7	21,300*	140
145	46.6	250.2	18,300*	49.5	256.1	19,100*	55.0	264.3	20,700*	145
150	44.5	245.2	17,900*	47.5	251.6	18,600*	53.1	260.6	20,100*	150
155	42.2	239.8	17,500*	45.4	246.8	18,200*	51.2	256.6	19,600*	155
160	39.9	234.0	17,100*	43.3	241.5	17,700*	49.3	252.4	19,100*	160
165	37.5	227.6	16,800*	41.0	235.9	17,300*	47.2	247.8	18,600*	165
170	34.9	220.7	16,400*	38.6	229.8	17,000*	45.1	243.0	18,200*	170
175	32.2	213.0	16,100*	36.1	223.1	16,600*	43.0	237.7	17,700*	175
180	29.2	204.4	15,800*	33.5	215.8	16,300*	40.7	232.0	17,300*	180
185	25.9	194.6	15,600*	30.6	207.6	16,000*	38.3	225.8	17,000*	185
190	22.1	183.1	15,400*	27.5	198.4	15,800*	35.8	219.1	16,600*	190
195	17.6	168.9	15,200*	23.9	187.8	15,500*	33.1	211.6	16,200*	195
200	11.4	148.8	14,400*	19.8	175.0	15,300*	30.2	203.4	15,600*	200
205				14.6	158.4	15,100*	27.0	194.0	15,000*	205
210				5.5	128.6	13,400*	23.4	183.1	14,400*	210
215							19.2	169.9	13,900*	215
220							13.7	152.4	13,300*	220
225							1.9	113.3	12,800*	225



ANSI B30.5

14000 S-2



105.0 ft

170 ft

30 ft

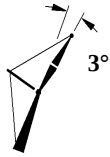
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	73.9	305.3	25,100*							70
75	72.4	303.7	24,900*							75
80	70.9	302.0	24,300*							80
85	69.3	300.1	23,900*							85
90	67.8	298.1	23,600*	70.0	300.2	23,700*				90
95	66.2	296.0	23,300*	68.5	298.3	23,300*				95
100	64.7	293.6	22,900*	67.0	296.2	23,000*				100
105	63.1	291.1	22,600*	65.4	293.9	22,700*				105
110	61.5	288.4	21,900*	63.8	291.5	22,400*				110
115	59.8	285.5	21,300*	62.2	288.9	22,200*				115
120	58.1	282.5	20,600*	60.6	286.1	21,600*				120
125	56.4	279.2	20,000*	58.9	283.1	21,000*				125
130	54.7	275.7	19,500*	57.2	280.0	20,400*	62.0	285.4	20,800*	130
135	52.9	272.0	19,000*	55.5	276.6	19,800*	60.3	282.6	20,700*	135
140	51.1	268.0	18,500*	53.7	272.9	19,300*	58.7	279.6	20,500*	140
145	49.2	263.8	18,100*	51.9	269.1	18,800*	57.0	276.4	20,200*	145
150	47.3	259.2	17,600*	50.1	265.0	18,300*	55.3	273.0	19,700*	150
155	45.3	254.4	17,200*	48.2	260.6	17,900*	53.5	269.3	19,200*	155
160	43.3	249.2	16,900*	46.2	255.9	17,500*	51.7	265.4	18,700*	160
165	41.1	243.6	16,500*	44.2	250.8	17,100*	49.8	261.3	18,300*	165
170	38.9	237.5	16,200*	42.1	245.4	16,700*	47.9	256.8	17,800*	170
175	36.5	230.9	15,900*	39.9	239.5	16,400*	46.0	252.1	17,400*	175
180	34.0	223.7	15,600*	37.6	233.2	16,100*	43.9	247.0	17,100*	180
185	31.4	215.8	15,400*	35.2	226.3	15,800*	41.8	241.5	16,700*	185
190	28.4	206.9	15,100*	32.6	218.7	15,500*	39.6	235.6	16,400*	190
195	25.2	196.8	14,900*	29.8	210.3	15,300*	37.3	229.2	16,000	195
200	21.6	185.0	14,700*	26.7	200.8	15,100*	34.8	222.2	15,400	200
205	17.2	170.4	14,200*	23.3	189.9	14,900*	32.2	214.5	14,800	205
210	11.1	149.8	12,900*	19.3	176.7	14,600*	29.4	206.0	14,200	210
215				14.2	159.6	13,900*	26.3	196.3	13,700	215
220				5.4	129.1	11,900*	22.8	185.1	13,100	220
225							18.7	171.6	12,600	225
230							13.4	153.6	12,200	230
235							1.8	113.4	11,600	235

14000 S-2

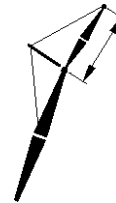
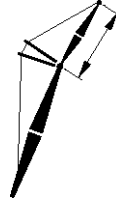
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb

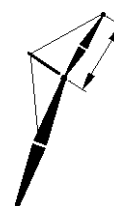
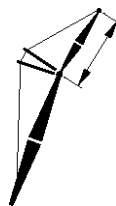
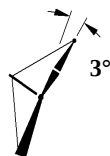
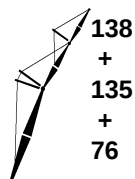


105.0 ft

140 ft

40 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	74.1	285.8	23,200*							65
70	72.4	284.2	22,900*							70
75	70.8	282.5	22,600*							75
80	69.1	280.5	22,300*							80
85	67.3	278.5	22,000*	69.8	280.7	22,500*				85
90	65.6	276.2	21,800*	68.1	278.6	22,200*				90
95	63.8	273.7	21,500*	66.4	276.4	22,000*				95
100	62.0	271.0	20,800*	64.6	274.1	21,700*				100
105	60.2	268.2	20,000*	62.9	271.5	21,200*				105
110	58.3	265.1	19,300*	61.0	268.7	20,400*				110
115	56.5	261.8	18,600*	59.2	265.7	19,700*				115
120	54.5	258.2	18,000*	57.3	262.5	19,000*	62.6	268.0	21,100*	120
125	52.5	254.4	17,400*	55.4	259.1	18,300*	60.8	265.2	20,300*	125
130	50.5	250.3	16,900*	53.4	255.4	17,800*	59.0	262.2	19,600*	130
135	48.3	245.8	16,400*	51.4	251.4	17,200*	57.1	259.0	18,900*	135
140	46.2	241.0	16,000*	49.3	247.1	16,700*	55.1	255.5	18,300*	140
145	43.9	235.9	15,500*	47.2	242.5	16,200*	53.2	251.7	17,700*	145
150	41.5	230.3	15,100*	44.9	237.5	15,800*	51.1	247.7	17,200*	150
155	39.0	224.1	14,700*	42.6	232.1	15,300*	49.0	243.4	16,700*	155
160	36.3	217.4	14,400*	40.2	226.2	15,000*	46.9	238.7	16,200*	160
165	33.5	210.0	14,100*	37.6	219.8	14,600*	44.6	233.7	15,700*	165
170	30.4	201.7	13,800*	34.8	212.7	14,300*	42.3	228.2	15,300*	170
175	27.0	192.2	13,500*	31.9	204.8	14,000*	39.8	222.3	15,000*	175
180	23.2	181.0	13,300*	28.6	195.9	13,700*	37.2	215.8	14,600*	180
185	18.5	167.2	13,100*	25.0	185.6	13,400*	34.4	208.6	14,300*	185
190	12.1	147.6	12,900*	20.8	173.2	13,200*	31.5	200.6	14,000*	190
195				15.4	156.9	13,000*	28.2	191.5	13,700*	195
200				5.9	127.6	12,900*	24.5	180.9	13,400*	200
205							20.1	168.1	13,200*	205
210							14.5	151.1	13,000*	210



105.0 ft

150 ft

40 ft

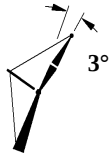
	105.0 ft			150 ft			40 ft			
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	74.9	296.2	22,900*							65
70	73.4	294.8	22,600*							70
75	71.8	293.1	22,300*							75
80	70.2	291.3	22,000*							80
85	68.6	289.3	21,800*	70.9	291.3	22,200*				85
90	67.0	287.2	21,500*	69.3	289.4	21,900*				90
95	65.3	284.9	21,300*	67.7	287.4	21,700*				95
100	63.6	282.4	20,500*	66.1	285.1	21,500*				100
105	61.9	279.7	19,700*	64.4	282.7	20,900*				105
110	60.2	276.8	19,000*	62.7	280.1	20,100*				110
115	58.4	273.8	18,400*	61.0	277.4	19,400*				115
120	56.6	270.5	17,800*	59.2	274.4	18,700*				120
125	54.8	266.9	17,200*	57.5	271.2	18,100*	62.5	276.7	19,900*	125
130	52.9	263.2	16,700*	55.7	267.8	17,500*	60.8	273.9	19,300*	130
135	51.0	259.1	16,200*	53.8	264.1	17,000*	59.0	270.9	18,600*	135
140	49.0	254.8	15,700*	51.9	260.2	16,500*	57.2	267.6	18,000*	140
145	47.0	250.1	15,300*	49.9	256.0	16,000*	55.4	264.2	17,500*	145
150	44.8	245.1	14,900*	47.9	251.5	15,600*	53.5	260.5	16,900*	150
155	42.6	239.7	14,600*	45.8	246.7	15,200*	51.6	256.5	16,400*	155
160	40.3	233.9	14,200*	43.7	241.5	14,800*	49.7	252.3	16,000*	160
165	37.9	227.5	13,900*	41.4	235.8	14,400*	47.6	247.8	15,500*	165
170	35.3	220.6	13,600*	39.0	229.7	14,100*	45.5	242.9	15,100*	170
175	32.6	212.9	13,300*	36.5	223.1	13,800*	43.3	237.6	14,800*	175
180	29.6	204.3	13,100*	33.8	215.7	13,500*	41.1	231.9	14,400*	180
185	26.3	194.5	12,800*	31.0	207.6	13,200*	38.7	225.7	14,100*	185
190	22.5	183.0	12,600*	27.8	198.3	13,000*	36.2	219.0	13,800*	190
195	18.0	168.7	12,400*	24.3	187.7	12,700*	33.5	211.6	13,500*	195
200	11.7	148.6	12,300*	20.2	174.9	12,500*	30.6	203.3	13,200*	200
205				14.9	158.1	12,400*	27.4	193.9	13,000*	205
210				5.8	128.1	12,300*	23.8	183.0	12,800*	210
215							19.5	169.8	12,600*	215
220							14.1	152.2	12,400*	220

14000 S-2

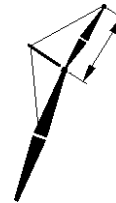
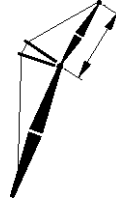
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



105.0 ft

160 ft

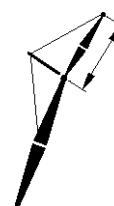
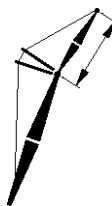
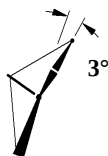
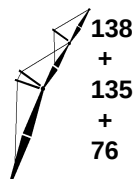
40 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.2	305.2	22,100*							70
75	72.7	303.6	21,900*							75
80	71.2	301.9	21,600*							80
85	69.7	300.1	21,400*							85
90	68.2	298.1	21,200*							90
95	66.6	295.9	20,900*	70.4	300.1	21,500*				95
100	65.1	293.5	20,100*	68.9	298.2	21,300*				100
105	63.5	291.0	19,400*	67.3	296.1	21,100*				105
110	61.8	288.4	18,700*	65.8	293.9	20,500*				110
115	60.2	285.5	18,100*	64.2	291.4	19,700*				115
120	58.5	282.4	17,500*	62.6	288.8	19,000*				120
125	56.8	279.2	17,000*	61.0	286.0	18,400*				125
130	55.1	275.7	16,500*	59.3	283.1	17,800*				130
135	53.3	271.9	16,000*	57.6	279.9	17,300*	62.4	285.4	18,900*	135
140	51.5	268.0	15,600*	55.9	276.5	16,700*	60.7	282.5	18,300*	140
145	49.6	263.7	15,100*	54.1	272.9	16,300*	59.1	279.5	17,700*	145
150	47.7	259.2	14,800*	52.3	269.0	15,800*	57.4	276.3	17,200*	150
155	45.7	254.3	14,400*	50.5	264.9	15,400*	55.6	272.9	16,700*	155
160	43.6	249.1	14,100*	48.6	260.5	15,000*	53.9	269.3	16,200*	160
165	41.5	243.5	13,800*	46.6	255.8	14,600*	52.1	265.4	15,800*	165
170	39.2	237.4	13,500*	44.6	250.7	14,300*	50.2	261.2	15,300*	170
175	36.9	230.8	13,200*	42.5	245.3	13,900*	48.3	256.8	15,000*	175
180	34.4	223.6	12,900*	40.3	239.5	13,600*	46.3	252.0	14,600*	180
185	31.7	215.7	12,700*	38.0	233.1	13,300*	44.3	246.9	14,200*	185
190	28.8	206.8	12,500*	35.5	226.2	13,100*	42.2	241.4	13,900*	190
195	25.6	196.7	12,300*	33.0	218.6	12,800*	40.0	235.5	13,600*	195
200	21.9	184.8	12,100*	30.2	210.2	12,600*	37.7	229.1	13,300*	200
205	17.5	170.2	11,900*	27.1	200.7	12,400*	35.2	222.1	13,100*	205
210	11.4	149.5	11,800*	23.7	189.7	12,200*	32.6	214.4	12,800*	210
215				19.6	176.6	12,000*	29.8	205.9	12,600*	215
220				14.5	159.4	11,900*	26.6	196.2	12,400*	220
225				5.6	128.4	11,800*	23.1	185.0	12,200*	225
230							19.0	171.4	12,000*	230
							13.7	153.4	11,900*	230



ANSI B30.5

14000 S-2



105.0 ft

170 ft

40 ft

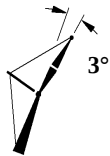
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	73.6	314.1	21,400*							75
80	72.2	312.5	21,100*							80
85	70.7	310.8	20,900*							85
90	69.3	308.9	20,700*							90
95	67.8	306.8	20,400*	69.9	309.0	20,500*				95
100	66.3	304.6	19,600*	68.5	307.0	20,200*				100
105	64.8	302.2	18,900*	67.0	304.8	20,000*				105
110	63.3	299.7	18,300*	65.5	302.5	19,300*				110
115	61.8	297.0	17,700*	64.0	300.1	18,600*				115
120	60.2	294.1	17,200*	62.5	297.5	18,000*				120
125	58.6	291.1	16,600*	60.9	294.7	17,400*				125
130	57.0	287.8	16,200*	59.3	291.7	16,900*				130
135	55.3	284.4	15,700*	57.7	288.6	16,400*	62.2	294.0	17,900*	135
140	53.6	280.7	15,300*	56.1	285.2	15,900*	60.7	291.2	17,300*	140
145	51.9	276.8	14,900*	54.4	281.6	15,500*	59.1	288.2	16,800*	145
150	50.1	272.6	14,500*	52.7	277.8	15,100*	57.5	285.0	16,300*	150
155	48.3	268.2	14,200*	51.0	273.8	14,700*	55.8	281.6	15,900*	155
160	46.5	263.5	13,800*	49.2	269.5	14,400*	54.2	278.0	15,500*	160
165	44.5	258.4	13,500*	47.3	264.9	14,000*	52.5	274.2	15,100*	165
170	42.5	253.0	13,200*	45.4	260.0	13,700*	50.7	270.1	14,700*	170
175	40.4	247.1	13,000*	43.4	254.7	13,400*	48.9	265.7	14,300*	175
180	38.2	240.9	12,700*	41.4	249.1	13,100*	47.1	261.1	14,000*	180
185	36.0	234.0	12,500*	39.3	243.0	12,900*	45.1	256.1	13,700*	185
190	33.5	226.6	12,300*	37.0	236.4	12,600*	43.2	250.9	13,400*	190
195	30.9	218.4	12,100*	34.7	229.3	12,400*	41.1	245.2	13,100*	195
200	28.1	209.2	11,900*	32.1	221.5	12,200*	39.0	239.0	12,900*	200
205	24.9	198.9	11,700*	29.4	212.8	12,000*	36.7	232.4	12,600*	205
210	21.4	186.7	11,500*	26.4	203.0	11,800*	34.3	225.2	12,400*	210
215	17.0	171.6	11,400*	23.1	191.7	11,600*	31.8	217.2	12,200*	215
220	11.1	150.4	11,300*	19.1	178.2	11,500*	29.0	208.4	12,000*	220
225				14.2	160.5	11,400*	26.0	198.4	11,800*	225
230				5.4	128.9	11,100*	22.6	186.9	11,600*	230
235							18.5	173.0	11,500*	235
240							13.3	154.5	11,400*	240

14000 S-2

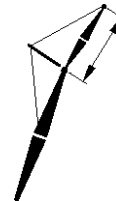
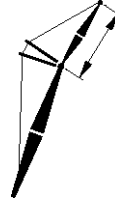
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



105.0 ft

140 ft

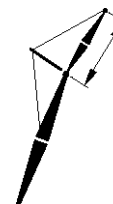
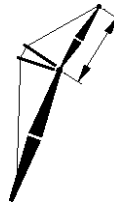
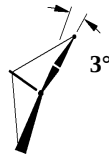
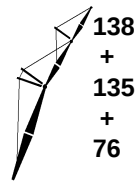
50 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	73.5	294.8	19,600*							70
75	71.9	293.1	19,300*							75
80	70.3	291.3	19,000*							80
85	68.7	289.3	18,700*							85
90	67.1	287.2	18,500*	69.4	289.4	18,900*				90
95	65.4	284.9	18,200*	67.8	287.4	18,600*				95
100	63.7	282.4	18,000*	66.2	285.1	18,400*				100
105	62.0	279.7	17,600*	64.5	282.8	18,200*				105
110	60.3	276.8	16,900*	62.8	280.2	17,900*				110
115	58.5	273.8	16,300*	61.1	277.4	17,300*				115
120	56.7	270.5	15,800*	59.3	274.4	16,600*				120
125	54.9	267.0	15,200*	57.6	271.2	16,000*	62.6	276.7	17,800*	125
130	53.0	263.2	14,700*	55.8	267.8	15,500*	60.9	273.9	17,200*	130
135	51.1	259.1	14,300*	53.9	264.1	15,000*	59.1	270.9	16,600*	135
140	49.1	254.8	13,900*	52.0	260.2	14,500*	57.3	267.7	16,000*	140
145	47.1	250.1	13,500*	50.0	256.0	14,100*	55.5	264.2	15,500*	145
150	44.9	245.1	13,100*	48.0	251.5	13,700*	53.6	260.5	15,000*	150
155	42.7	239.8	12,800*	45.9	246.7	13,300*	51.7	256.6	14,500*	155
160	40.4	233.9	12,400*	43.8	241.5	12,900*	49.8	252.3	14,100*	160
165	38.0	227.6	12,100*	41.5	235.8	12,600*	47.7	247.8	13,700*	165
170	35.4	220.6	11,800*	39.1	229.7	12,300*	45.6	242.9	13,300*	170
175	32.7	212.9	11,600*	36.6	223.1	12,000*	43.5	237.6	12,900*	175
180	29.7	204.3	11,300*	34.0	215.7	11,700*	41.2	231.9	12,600*	180
185	26.4	194.5	11,100*	31.1	207.6	11,500*	38.8	225.8	12,300*	185
190	22.6	183.0	10,900*	27.9	198.4	11,200*	36.3	219.0	12,000*	190
195	18.1	168.7	10,700*	24.4	187.7	11,000*	33.6	211.6	11,700*	195
200	11.9	148.6	10,600*	20.3	174.9	10,800*	30.7	203.3	11,500*	200
205				15.0	158.2	10,700*	27.5	193.9	11,200*	205
210				5.9	128.1	10,600*	23.9	183.0	11,000*	210
215							19.6	169.8	10,800*	215
220							14.2	152.3	10,700*	220
225							1.6	110.7	10,600*	225



ANSI B30.5

14000 S-2



105.0 ft

150 ft

50 ft

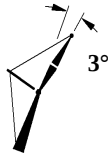
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.3	305.2	19,300*							70
75	72.8	303.6	19,000*							75
80	71.3	301.9	18,800*							80
85	69.8	300.1	18,500*							85
90	68.3	298.1	18,300*	70.5	300.1	18,600*				90
95	66.7	295.9	18,000*	69.0	298.2	18,400*				95
100	65.1	293.6	17,800*	67.4	296.1	18,200*				100
105	63.5	291.1	17,300*	65.9	293.9	18,000*				105
110	61.9	288.4	16,700*	64.3	291.4	17,600*				110
115	60.3	285.5	16,100*	62.7	288.8	17,000*				115
120	58.6	282.4	15,500*	61.0	286.0	16,400*				120
125	56.9	279.2	15,000*	59.4	283.1	15,800*				125
130	55.2	275.7	14,500*	57.7	279.9	15,300*	62.5	285.4	16,900*	130
135	53.4	272.0	14,100*	56.0	276.5	14,800*	60.8	282.5	16,300*	135
140	51.6	268.0	13,700*	54.2	272.9	14,300*	59.2	279.5	15,700*	140
145	49.7	263.7	13,300*	52.4	269.0	13,900*	57.5	276.3	15,200*	145
150	47.8	259.2	12,900*	50.6	264.9	13,500*	55.7	272.9	14,700*	150
155	45.8	254.3	12,600*	48.7	260.5	13,100*	54.0	269.3	14,300*	155
160	43.7	249.1	12,300*	46.7	255.8	12,800*	52.2	265.4	13,900*	160
165	41.6	243.5	12,000*	44.7	250.8	12,400*	50.3	261.2	13,500*	165
170	39.3	237.4	11,700*	42.6	245.3	12,100*	48.4	256.8	13,100*	170
175	37.0	230.9	11,400*	40.4	239.5	11,800*	46.4	252.0	12,800*	175
180	34.5	223.6	11,200*	38.1	233.1	11,600*	44.4	246.9	12,400*	180
185	31.8	215.7	10,900*	35.6	226.2	11,300*	42.3	241.4	12,100*	185
190	28.9	206.8	10,700*	33.0	218.6	11,100*	40.1	235.5	11,800*	190
195	25.7	196.7	10,500*	30.3	210.2	10,800*	37.8	229.1	11,600*	195
200	22.0	184.9	10,300*	27.2	200.7	10,600*	35.3	222.1	11,300*	200
205	17.6	170.2	10,200*	23.8	189.8	10,400*	32.7	214.4	11,100*	205
210	11.5	149.5	10,100*	19.7	176.6	10,300*	29.9	205.9	10,800*	210
215				14.6	159.4	10,100*	26.8	196.2	10,600*	215
220				5.7	128.5	10,100*	23.2	185.0	10,500*	220
225							19.1	171.4	10,300*	225
230							13.8	153.4	10,200*	230
235							1.5	110.5	10,100*	235

14000 S-2

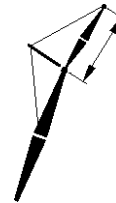
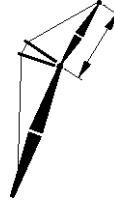
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb

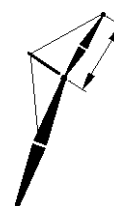
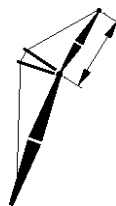
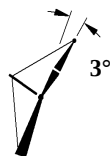
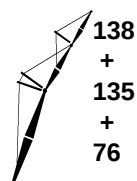


105.0 ft

160 ft

50 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	73.7	314.1	18,700*							75
80	72.2	312.5	18,500*							80
85	70.8	310.8	18,200*							85
90	69.4	308.9	18,000*							90
95	67.9	306.8	17,800*	70.0	309.0	18,100*				95
100	66.4	304.6	17,600*	68.6	307.0	17,900*				100
105	64.9	302.2	17,000*	67.1	304.8	17,700*				105
110	63.4	299.7	16,400*	65.6	302.5	17,300*				110
115	61.8	297.0	15,800*	64.1	300.1	16,700*				115
120	60.3	294.2	15,300*	62.5	297.5	16,100*				120
125	58.7	291.1	14,800*	61.0	294.7	15,600*				125
130	57.1	287.9	14,300*	59.4	291.7	15,100*				130
135	55.4	284.4	13,900*	57.8	288.6	14,600*	62.3	294.0	16,000*	135
140	53.7	280.7	13,500*	56.2	285.2	14,100*	60.8	291.2	15,500*	140
145	52.0	276.8	13,100*	54.5	281.6	13,700*	59.2	288.2	15,000*	145
150	50.2	272.6	12,800*	52.8	277.8	13,300*	57.6	285.0	14,500*	150
155	48.4	268.2	12,400*	51.0	273.8	13,000*	55.9	281.6	14,100*	155
160	46.5	263.5	12,100*	49.2	269.5	12,600*	54.3	278.0	13,700*	160
165	44.6	258.4	11,800*	47.4	264.9	12,300*	52.5	274.2	13,300*	165
170	42.6	253.0	11,600*	45.5	260.0	12,000*	50.8	270.1	12,900*	170
175	40.5	247.1	11,300*	43.5	254.7	11,700*	49.0	265.8	12,600*	175
180	38.3	240.9	11,100*	41.5	249.1	11,400*	47.2	261.1	12,300*	180
185	36.0	234.1	10,800*	39.3	243.0	11,200*	45.2	256.2	12,000*	185
190	33.6	226.6	10,600*	37.1	236.4	10,900*	43.3	250.9	11,700*	190
195	31.0	218.4	10,400*	34.7	229.3	10,700*	41.2	245.2	11,400*	195
200	28.2	209.3	10,200*	32.2	221.5	10,500*	39.0	239.0	11,200*	200
205	25.0	198.9	10,000*	29.5	212.8	10,300*	36.8	232.4	10,900*	205
210	21.5	186.7	9,900*	26.5	203.0	10,100*	34.4	225.2	10,700*	210
215	17.1	171.6	9,800*	23.2	191.7	10,000*	31.9	217.2	10,500*	215
220	11.2	150.4	9,700*	19.2	178.2	9,800*	29.1	208.4	10,300*	220
225				14.3	160.6	9,700*	26.1	198.5	10,200*	225
230				5.6	128.9	9,700*	22.7	186.9	10,000*	230
235							18.6	173.0	9,800*	235
240							13.4	154.5	9,700*	240



105.0 ft

170 ft

50 ft

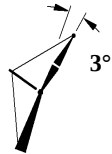
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.4	324.6	18,200*							75
80	73.1	323.0	17,900*							80
85	71.7	321.4	17,600*							85
90	70.3	319.6	17,300*							90
95	68.9	317.6	17,100*	71.0	319.6	17,200*				95
100	67.5	315.5	16,800*	69.6	317.7	17,000*				100
105	66.1	313.3	16,600*	68.2	315.7	16,700*				105
110	64.7	310.9	16,100*	66.8	313.6	16,500*				110
115	63.2	308.4	15,500*	65.3	311.2	16,300*				115
120	61.8	305.7	15,000*	63.9	308.8	15,800*				120
125	60.3	302.8	14,500*	62.4	306.1	15,300*				125
130	58.7	299.8	14,100*	61.0	303.4	14,800*				130
135	57.2	296.5	13,700*	59.4	300.4	14,300*				135
140	55.6	293.1	13,300*	57.9	297.2	13,900*	62.2	302.7	15,200*	140
145	54.0	289.5	12,900*	56.3	293.9	13,500*	60.7	299.9	14,700*	145
150	52.4	285.6	12,600*	54.8	290.4	13,100*	59.2	296.9	14,200*	150
155	50.7	281.5	12,200*	53.1	286.6	12,700*	57.7	293.7	13,800*	155
160	49.0	277.1	11,900*	51.5	282.6	12,400*	56.1	290.3	13,400*	160
165	47.2	272.5	11,600*	49.8	278.4	12,100*	54.5	286.8	13,100*	165
170	45.4	267.6	11,400*	48.0	273.9	11,800*	52.9	283.0	12,700*	170
175	43.5	262.4	11,100*	46.2	269.1	11,500*	51.2	279.0	12,400*	175
180	41.6	256.7	10,900*	44.4	264.0	11,300*	49.5	274.7	12,100*	180
185	39.5	250.7	10,600*	42.5	258.5	11,000*	47.8	270.1	11,800*	185
190	37.4	244.2	10,400*	40.5	252.7	10,800*	46.0	265.3	11,500*	190
195	35.2	237.2	10,200*	38.4	246.4	10,500*	44.1	260.2	11,200*	195
200	32.8	229.5	10,000*	36.2	239.7	10,300*	42.2	254.7	11,000*	200
205	30.2	221.1	9,900*	33.9	232.3	10,100*	40.2	248.8	10,800*	205
210	27.5	211.7	9,700*	31.4	224.2	10,000*	38.1	242.4	10,500*	210
215	24.4	201.0	9,600*	28.8	215.3	9,800*	35.9	235.6	10,300*	215
220	20.9	188.5	9,400*	25.9	205.2	9,600*	33.6	228.1	10,100*	220
225	16.7	173.1	9,300*	22.6	193.7	9,500*	31.1	220.0	10,000*	225
230	10.9	151.3	9,200*	18.8	179.8	9,400*	28.4	210.9	9,800*	230
235				13.9	161.7	9,300*	25.5	200.7	9,700*	235
240				5.4	129.3	9,200*	22.1	188.8	9,500*	240
245							18.2	174.5	9,400*	245
250							13.1	155.6	9,300*	250

14000 S-2

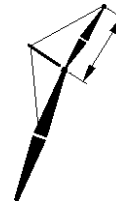
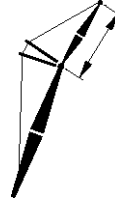
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb

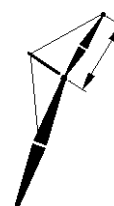
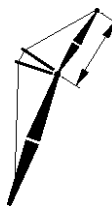
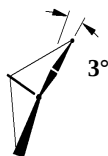
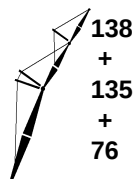


105.0 ft

140 ft

60 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.1	305.3	16,800*							70
75	72.7	303.7	16,400*							75
80	71.1	302.0	16,100*							80
85	69.6	300.1	15,700*							85
90	68.1	298.1	15,400*	70.3	300.2	15,800*				90
95	66.5	296.0	15,100*	68.8	298.3	15,400*				95
100	65.0	293.6	14,700*	67.2	296.2	15,100*				100
105	63.4	291.1	14,400*	65.7	293.9	14,800*				105
110	61.7	288.4	14,100*	64.1	291.5	14,500*				110
115	60.1	285.5	13,800*	62.5	288.9	14,200*				115
120	58.4	282.5	13,600*	60.8	286.1	13,900*				120
125	56.7	279.2	13,200*	59.2	283.1	13,600*				125
130	55.0	275.7	12,800*	57.5	279.9	13,400*	62.3	285.4	13,900*	130
135	53.2	272.0	12,400*	55.8	276.6	13,000*	60.6	282.6	13,600*	135
140	51.4	268.0	12,000*	54.0	272.9	12,600*	59.0	279.6	13,400*	140
145	49.5	263.8	11,700*	52.2	269.1	12,200*	57.3	276.4	13,200*	145
150	47.6	259.2	11,400*	50.4	265.0	11,900*	55.5	273.0	12,900*	150
155	45.6	254.4	11,100*	48.5	260.6	11,600*	53.8	269.3	12,600*	155
160	43.5	249.2	10,800*	46.5	255.9	11,200*	52.0	265.4	12,200*	160
165	41.4	243.6	10,500*	44.5	250.8	10,900*	50.1	261.3	11,900*	165
170	39.2	237.5	10,200*	42.4	245.4	10,700*	48.2	256.8	11,500*	170
175	36.8	230.9	10,000*	40.2	239.5	10,400*	46.2	252.1	11,200*	175
180	34.3	223.7	9,700*	37.9	233.2	10,100*	44.2	247.0	10,900*	180
185	31.6	215.8	9,500*	35.5	226.3	9,900*	42.1	241.5	10,700*	185
190	28.7	206.9	9,300*	32.9	218.7	9,700*	39.9	235.6	10,400*	190
195	25.5	196.8	9,100*	30.1	210.3	9,400*	37.6	229.2	10,100*	195
200	21.9	185.0	8,900*	27.0	200.8	9,200*	35.1	222.2	9,900*	200
205	17.4	170.4	8,800*	23.6	189.9	9,000*	32.5	214.5	9,700*	205
210	11.4	149.8	8,600*	19.6	176.7	8,900*	29.7	206.0	9,500*	210
215				14.5	159.6	8,700*	26.6	196.3	9,300*	215
220				5.7	129.1	8,600*	23.1	185.1	9,100*	220
225							19.0	171.6	8,900*	225
230							13.6	153.6	8,700*	230
235							2.1	113.3	8,600*	235



105.0 ft

150 ft

60 ft

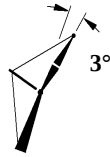
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.9	315.7	16,300*							70
75	73.5	314.2	15,900*							75
80	72.1	312.6	15,600*							80
85	70.6	310.8	15,300*							85
90	69.2	308.9	15,000*							90
95	67.7	306.9	14,700*	69.8	309.0	15,000*				95
100	66.2	304.7	14,400*	68.4	307.0	14,700*				100
105	64.7	302.3	14,100*	66.9	304.9	14,400*				105
110	63.2	299.8	13,800*	65.4	302.6	14,100*				110
115	61.7	297.1	13,600*	63.9	300.2	13,900*				115
120	60.1	294.2	13,300*	62.4	297.5	13,600*				120
125	58.5	291.2	13,100*	60.8	294.8	13,400*				125
130	56.9	287.9	12,700*	59.2	291.8	13,100*				130
135	55.2	284.5	12,300*	57.6	288.6	12,900*	62.2	294.1	13,300*	135
140	53.5	280.8	12,000*	56.0	285.3	12,500*	60.6	291.3	13,100*	140
145	51.8	276.9	11,600*	54.3	281.7	12,100*	59.0	288.3	12,900*	145
150	50.0	272.7	11,300*	52.6	277.9	11,800*	57.4	285.1	12,700*	150
155	48.2	268.2	11,000*	50.9	273.8	11,500*	55.8	281.7	12,500*	155
160	46.4	263.5	10,700*	49.1	269.5	11,200*	54.1	278.1	12,100*	160
165	44.4	258.5	10,500*	47.2	264.9	10,900*	52.4	274.2	11,800*	165
170	42.4	253.0	10,200*	45.3	260.0	10,600*	50.6	270.2	11,400*	170
175	40.3	247.2	10,000*	43.4	254.8	10,300*	48.8	265.8	11,100*	175
180	38.2	240.9	9,700*	41.3	249.1	10,100*	47.0	261.2	10,900*	180
185	35.9	234.1	9,500*	39.2	243.1	9,900*	45.1	256.2	10,600*	185
190	33.4	226.7	9,300*	36.9	236.5	9,600*	43.1	250.9	10,300*	190
195	30.8	218.5	9,100*	34.6	229.4	9,400*	41.0	245.2	10,100*	195
200	28.0	209.4	8,900*	32.0	221.6	9,200*	38.9	239.1	9,900*	200
205	24.9	199.0	8,800*	29.3	212.9	9,000*	36.6	232.5	9,600*	205
210	21.3	186.8	8,600*	26.4	203.1	8,900*	34.2	225.3	9,400*	210
215	17.0	171.8	8,400*	23.0	191.9	8,700*	31.7	217.3	9,200*	215
220	11.1	150.7	8,300*	19.1	178.3	8,500*	28.9	208.5	9,000*	220
225				14.1	160.8	8,400*	25.9	198.6	8,900*	225
230				5.5	129.5	8,300*	22.5	187.1	8,700*	230
235							18.5	173.1	8,500*	235
240							13.3	154.7	8,400*	240
245							2.0	113.4	8,300*	245

14000 S-2

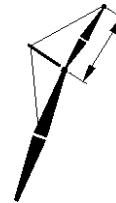
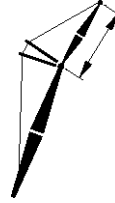
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb

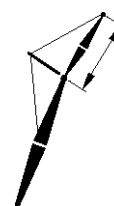
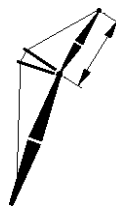
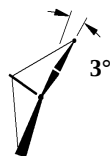
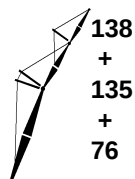


105.0 ft

160 ft

60 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.3	324.6	15,400*							75
80	72.9	323.1	15,100*							80
85	71.5	321.4	14,800*							85
90	70.2	319.6	14,500*							90
95	68.8	317.7	14,200*	70.8	319.7	14,500*				95
100	67.4	315.6	13,900*	69.4	317.8	14,200*				100
105	65.9	313.4	13,700*	68.0	315.8	14,000*				105
110	64.5	311.0	13,400*	66.6	313.6	13,700*				110
115	63.1	308.5	13,200*	65.2	311.3	13,500*				115
120	61.6	305.7	13,000*	63.7	308.8	13,200*				120
125	60.1	302.9	12,700*	62.3	306.2	13,000*				125
130	58.6	299.8	12,500*	60.8	303.4	12,800*				130
135	57.0	296.6	12,300*	59.3	300.5	12,600*				135
140	55.5	293.2	11,900*	57.7	297.3	12,300*	62.1	302.7	12,700*	140
145	53.8	289.5	11,600*	56.2	294.0	12,100*	60.6	299.9	12,500*	145
150	52.2	285.7	11,300*	54.6	290.4	11,800*	59.1	296.9	12,300*	150
155	50.5	281.6	11,000*	53.0	286.7	11,400*	57.5	293.8	12,100*	155
160	48.8	277.2	10,700*	51.3	282.7	11,100*	56.0	290.4	11,900*	160
165	47.0	272.6	10,500*	49.6	278.4	10,900*	54.4	286.8	11,700*	165
170	45.2	267.7	10,200*	47.9	273.9	10,600*	52.7	283.0	11,400*	170
175	43.3	262.4	10,000*	46.1	269.2	10,400*	51.1	279.0	11,100*	175
180	41.4	256.8	9,700*	44.2	264.1	10,100*	49.4	274.7	10,800*	180
185	39.4	250.8	9,500*	42.3	258.6	9,900*	47.6	270.2	10,600*	185
190	37.2	244.3	9,300*	40.3	252.8	9,600*	45.8	265.4	10,300*	190
195	35.0	237.2	9,100*	38.2	246.5	9,400*	44.0	260.2	10,100*	195
200	32.6	229.6	8,900*	36.0	239.7	9,200*	42.0	254.7	9,900*	200
205	30.1	221.2	8,700*	33.7	232.4	9,000*	40.0	248.9	9,600*	205
210	27.3	211.8	8,600*	31.3	224.3	8,800*	37.9	242.5	9,400*	210
215	24.3	201.1	8,400*	28.6	215.4	8,700*	35.7	235.7	9,200*	215
220	20.8	188.6	8,300*	25.7	205.4	8,500*	33.4	228.2	9,000*	220
225	16.6	173.2	8,200*	22.5	193.8	8,400*	30.9	220.1	8,800*	225
230	10.8	151.6	8,100*	18.6	179.9	8,200*	28.2	211.0	8,700*	230
235				13.8	161.9	8,100*	25.3	200.8	8,500*	235
240				5.4	129.9	8,100*	22.0	189.0	8,400*	240
245							18.0	174.7	8,200*	245
250							13.0	155.8	8,100*	250
255							1.9	113.5	8,100*	255



105.0 ft

170 ft

60 ft

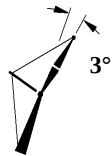
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	75.0	335.0	14,700*							75
80	73.7	333.6	14,400*							80
85	72.4	332.0	14,200*							85
90	71.1	330.3	13,900*							90
95	69.7	328.4	13,700*							95
100	68.4	326.4	13,400*	70.3	328.5	13,600*				100
105	67.1	324.3	13,200*	69.0	326.6	13,400*				105
110	65.7	322.1	13,000*	67.7	324.5	13,200*				110
115	64.3	319.7	12,700*	66.3	322.3	13,000*				115
120	62.9	317.1	12,500*	64.9	320.0	12,800*				120
125	61.5	314.4	12,300*	63.6	317.5	12,600*				125
130	60.1	311.5	12,100*	62.2	314.9	12,400*				130
135	58.6	308.5	11,900*	60.7	312.1	12,100*				135
140	57.2	305.3	11,700*	59.3	309.1	12,000*				140
145	55.7	301.9	11,500*	57.8	306.0	11,800*	62.0	311.4	12,000*	145
150	54.1	298.3	11,200*	56.3	302.6	11,600*	60.5	308.6	11,800*	150
155	52.6	294.5	10,900*	54.8	299.1	11,300*	59.1	305.6	11,700*	155
160	51.0	290.4	10,600*	53.3	295.4	11,000*	57.6	302.4	11,500*	160
165	49.3	286.1	10,300*	51.7	291.5	10,800*	56.1	299.1	11,400*	165
170	47.7	281.6	10,100*	50.1	287.3	10,500*	54.6	295.5	11,200*	170
175	46.0	276.8	9,800*	48.4	282.9	10,200*	53.1	291.8	11,000*	175
180	44.2	271.7	9,600*	46.7	278.2	9,900*	51.5	287.8	10,700*	180
185	42.3	266.3	9,400*	45.0	273.3	9,700*	49.9	283.6	10,400*	185
190	40.4	260.5	9,200*	43.2	268.0	9,500*	48.2	279.2	10,200*	190
195	38.5	254.2	9,000*	41.3	262.4	9,300*	46.5	274.5	9,900*	195
200	36.4	247.5	8,800*	39.4	256.3	9,100*	44.8	269.5	9,700*	200
205	34.2	240.3	8,600*	37.3	249.9	8,900*	42.9	264.1	9,500*	205
210	31.9	232.4	8,400*	35.2	242.9	8,700*	41.1	258.5	9,300*	210
215	29.4	223.8	8,300*	33.0	235.3	8,500*	39.1	252.4	9,100*	215
220	26.7	214.1	8,100*	30.6	227.0	8,400*	37.1	245.9	8,900*	220
225	23.7	203.1	8,000*	28.0	217.9	8,200*	34.9	238.8	8,700*	225
230	20.3	190.4	7,900*	25.1	207.6	8,100*	32.7	231.1	8,500*	230
235	16.2	174.6	7,800*	21.9	195.7	8,000*	30.2	222.7	8,400*	235
240	10.6	152.4	7,700*	18.2	181.5	7,800*	27.6	213.4	8,200*	240
245				13.5	163.0	7,700*	24.7	202.9	8,100*	245
250				5.2	130.3	7,700*	21.5	190.8	8,000*	250
255							17.6	176.2	7,800*	255
260							12.7	156.8	7,800*	260
265							1.9	113.6	7,700*	265

14000 S-2

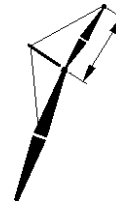
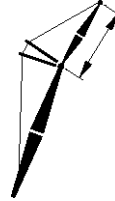
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



124.7 ft

140 ft

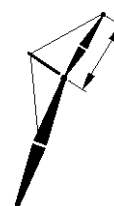
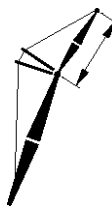
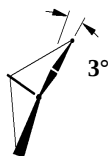
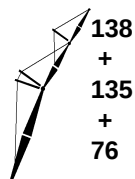
30 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
60	74.8	296.9	27,900*							60
65	73.1	295.4	27,600*							65
70	71.3	293.7	27,300*							70
75	69.5	291.9	27,000*							75
80	67.7	289.9	26,700*	70.8	292.3	27,300*				80
85	65.9	287.7	26,500*	69.0	290.5	27,000*				85
90	64.0	285.3	26,200*	67.2	288.4	26,700*				90
95	62.1	282.7	25,900*	65.4	286.1	26,500*				95
100	60.2	279.8	25,000*	63.5	283.7	26,300*				100
105	58.2	276.8	24,000*	61.6	281.0	25,800*				105
110	56.2	273.5	23,200*	59.7	278.1	24,800*				110
115	54.2	270.0	22,400*	57.7	275.0	23,900*				115
120	52.0	266.1	21,700*	55.7	271.7	23,100*	62.4	278.5	26,000*	120
125	49.9	262.0	21,000*	53.6	268.0	22,300*	60.5	275.7	25,200*	125
130	47.6	257.5	20,400*	51.5	264.1	21,600*	58.5	272.7	24,300*	130
135	45.3	252.7	19,800*	49.3	259.9	21,000*	56.5	269.4	23,400*	135
140	42.9	247.4	19,300*	47.0	255.3	20,300*	54.4	265.9	22,700*	140
145	40.3	241.6	18,800*	44.7	250.4	19,800*	52.3	262.1	22,000*	145
150	37.6	235.3	18,400*	42.2	245.0	19,300*	50.2	258.0	21,300*	150
155	34.7	228.3	17,900*	39.6	239.1	18,800*	47.9	253.6	20,700*	155
160	31.6	220.5	17,500*	36.8	232.6	18,300*	45.6	248.8	20,100*	160
165	28.2	211.6	17,200*	33.9	225.4	17,900*	43.2	243.6	19,500*	165
170	24.3	201.2	16,800*	30.7	217.3	17,500*	40.7	237.9	19,000*	170
175	19.7	188.5	16,600*	27.2	208.1	17,100*	38.0	231.7	18,600*	175
180	13.7	171.2	16,300*	23.2	197.2	16,800*	35.1	224.8	18,000	180
185				18.3	183.6	16,500*	32.0	217.1	17,200	185
190				11.6	164.0	16,300*	28.7	208.3	16,600	190
195							24.9	198.2	15,900	195
200							20.4	185.9	15,300	200
205							14.7	169.5	14,700	205
210							3.0	134.9	14,100	210



ANSI B30.5

14000 S-2



124.7 ft

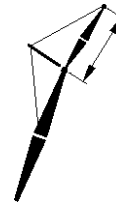
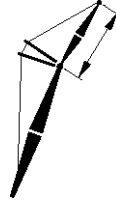
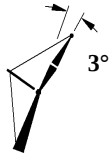
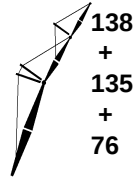
150 ft

30 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	74.0	305.9	27,100*							65
70	72.4	304.3	26,800*							70
75	70.7	302.6	26,600*							75
80	69.0	300.7	26,300*							80
85	67.3	298.6	26,000*	70.2	301.1	26,500*				85
90	65.5	296.4	25,800*	68.5	299.2	26,300*				90
95	63.8	293.9	25,500*	66.8	297.1	26,000*				95
100	62.0	291.3	24,500*	65.1	294.8	25,800*				100
105	60.2	288.5	23,700*	63.3	292.3	25,300*				105
110	58.3	285.5	22,900*	61.5	289.7	24,400*				110
115	56.4	282.2	22,100*	59.7	286.8	23,500*				115
120	54.5	278.7	21,400*	57.8	283.7	22,800*				120
125	52.5	274.9	20,800*	55.9	280.4	22,000*	62.2	287.1	24,700*	125
130	50.5	270.9	20,200*	54.0	276.8	21,300*	60.4	284.4	23,800*	130
135	48.4	266.5	19,600*	52.0	272.9	20,700*	58.6	281.3	23,000*	135
140	46.2	261.8	19,100*	49.9	268.8	20,100*	56.7	278.1	22,300*	140
145	43.9	256.7	18,600*	47.8	264.3	19,500*	54.8	274.6	21,600*	145
150	41.6	251.2	18,100*	45.6	259.5	19,000*	52.8	270.9	21,000*	150
155	39.1	245.2	17,700*	43.3	254.4	18,500*	50.8	266.9	20,400*	155
160	36.5	238.6	17,300*	40.9	248.7	18,100*	48.7	262.5	19,800*	160
165	33.7	231.4	17,000*	38.4	242.6	17,700*	46.5	257.9	19,300*	165
170	30.7	223.2	16,600*	35.8	235.8	17,300*	44.2	252.9	18,800*	170
175	27.4	214.0	16,300*	32.9	228.4	16,900*	41.9	247.4	18,400*	175
180	23.6	203.3	16,000*	29.8	220.0	16,600*	39.5	241.5	17,800*	180
185	19.2	190.2	15,800*	26.4	210.4	16,300*	36.9	235.0	17,100*	185
190	13.3	172.4	15,600*	22.5	199.1	16,000*	34.1	227.8	16,400*	190
195				17.8	185.1	15,800*	31.1	219.9	15,800*	195
200				11.2	165.0	15,600*	27.8	210.8	15,200*	200
205							24.1	200.3	14,600*	205
210							19.8	187.6	14,000*	210
215							14.2	170.7	13,500*	215
220							2.9	135.1	12,900*	220

14000 S-2

ANSI B30.5



124.7 ft

160 ft

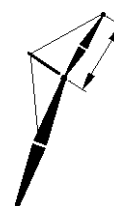
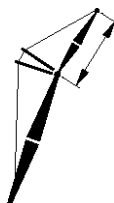
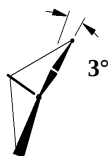
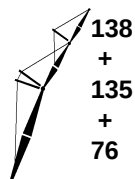
30 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	74.9	316.2	26,500*							65
70	73.3	314.8	26,200*							70
75	71.7	313.2	26,000*							75
80	70.1	311.4	25,700*							80
85	68.5	309.4	25,500*							85
90	66.9	307.3	25,300*	69.7	310.0	25,700*				90
95	65.3	305.1	25,000*	68.1	308.0	25,500*				95
100	63.6	302.6	24,100*	66.5	305.8	25,200*				100
105	61.9	300.0	23,300*	64.8	303.5	24,800*				105
110	60.2	297.2	22,500*	63.1	301.0	23,900*				110
115	58.4	294.1	21,800*	61.4	298.3	23,100*				115
120	56.6	290.9	21,100*	59.7	295.5	22,400*				120
125	54.8	287.4	20,500*	57.9	292.4	21,700*				125
130	52.9	283.7	19,900*	56.1	289.1	21,000*	62.1	295.8	22,900*	130
135	51.0	279.7	19,400*	54.3	285.5	20,400*	60.4	293.0	22,600*	135
140	49.0	275.4	18,900*	52.4	281.7	19,800*	58.7	290.0	21,900*	140
145	47.0	270.9	18,400*	50.5	277.7	19,300*	56.9	286.8	21,300*	145
150	44.9	265.9	18,000*	48.5	273.3	18,800*	55.0	283.3	20,700*	150
155	42.7	260.6	17,600*	46.4	268.6	18,400*	53.2	279.7	20,100*	155
160	40.4	254.9	17,200*	44.3	263.6	17,900*	51.3	275.7	19,600*	160
165	38.0	248.6	16,800*	42.1	258.2	17,500*	49.3	271.5	19,100*	165
170	35.5	241.8	16,500*	39.8	252.3	17,100*	47.3	266.9	18,600*	170
175	32.8	234.3	16,200*	37.3	245.9	16,800*	45.2	262.1	18,200*	175
180	29.8	225.9	15,900*	34.8	238.9	16,500*	43.0	256.8	17,500	180
185	26.6	216.4	15,600*	32.0	231.2	16,200*	40.7	251.1	16,800	185
190	23.0	205.3	15,400*	29.0	222.6	15,900*	38.3	245.0	16,100	190
195	18.6	191.8	15,200*	25.7	212.7	15,600*	35.8	238.2	15,500	195
200	12.9	173.5	15,000*	21.9	201.1	15,400*	33.2	230.8	14,900	200
205				17.3	186.6	15,200*	30.2	222.5	14,300	205
210				10.9	165.9	15,000*	27.1	213.2	13,700	210
215							23.5	202.4	13,200	215
220							19.3	189.2	12,700	220
225							13.9	171.9	12,200	225
230							2.8	135.3	11,700	230



ANSI B30.5

14000 S-2



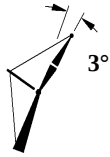
	124.7 ft			170 ft			30 ft			
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.2	325.2	24,400*							70
75	72.7	323.7	24,100*							75
80	71.2	322.0	23,600*							80
85	69.7	320.2	23,300*							85
90	68.1	318.2	23,000*	70.8	320.6	23,000*				90
95	66.6	316.1	22,700*	69.2	318.8	22,800*				95
100	65.0	313.8	22,400*	67.7	316.7	22,400*				100
105	63.4	311.3	22,100*	66.2	314.5	22,200*				105
110	61.8	308.6	21,900*	64.6	312.2	21,900*				110
115	60.2	305.8	21,300*	63.0	309.7	21,700*				115
120	58.5	302.8	20,700*	61.4	307.0	21,500*				120
125	56.8	299.6	20,100*	59.7	304.1	21,200*				125
130	55.1	296.1	19,500*	58.0	301.0	20,600*				130
135	53.3	292.5	19,000*	56.3	297.8	20,000*	62.0	304.5	20,100*	135
140	51.5	288.5	18,600*	54.6	294.2	19,500*	60.4	301.7	20,000*	140
145	49.6	284.3	18,100*	52.8	290.5	19,000*	58.7	298.7	19,900*	145
150	47.7	279.9	17,700*	51.0	286.5	18,500*	57.0	295.5	19,800*	150
155	45.7	275.1	17,300*	49.1	282.3	18,100*	55.3	292.1	19,600*	155
160	43.7	269.9	16,900*	47.2	277.7	17,600*	53.5	288.4	19,200*	160
165	41.6	264.4	16,600*	45.2	272.8	17,200*	51.7	284.5	18,700*	165
170	39.3	258.5	16,200*	43.1	267.6	16,900*	49.9	280.4	18,200*	170
175	37.0	252.0	15,900*	41.0	262.0	16,500*	48.0	276.0	17,800*	175
180	34.5	244.9	15,700*	38.7	255.9	16,200*	46.0	271.2	17,300	180
185	31.9	237.1	15,400*	36.4	249.2	15,900*	44.0	266.1	16,500	185
190	29.1	228.5	15,200*	33.9	242.0	15,600*	41.9	260.6	15,900	190
195	25.9	218.7	14,900*	31.2	234.0	15,400*	39.7	254.7	15,200	195
200	22.4	207.3	14,700*	28.2	225.1	15,100*	37.3	248.3	14,600	200
205	18.1	193.4	14,500*	25.0	214.9	14,900*	34.9	241.4	14,100	205
210	12.6	174.6	13,600*	21.3	202.9	14,700*	32.3	233.7	13,500	210
215				16.8	188.0	14,300*	29.5	225.2	13,000	215
220				10.6	166.8	13,600*	26.4	215.5	12,500	220
225							22.9	204.4	12,000	225
230							18.8	190.9	11,500	230
235							13.5	173.0	11,100	235
240							2.7	135.5	10,600	240

14000 S-2

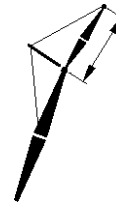
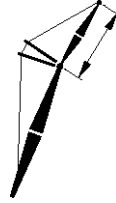
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb

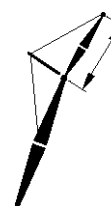
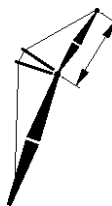
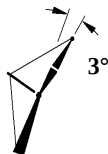
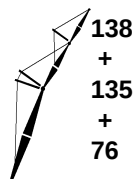


124.7 ft

140 ft

40 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	74.4	305.8	23,000*							65
70	72.8	304.2	22,700*							70
75	71.1	302.5	22,500*							75
80	69.4	300.6	22,200*							80
85	67.7	298.5	21,900*	70.7	301.1	22,400*				85
90	66.0	296.3	21,700*	68.9	299.2	22,200*				90
95	64.2	293.9	21,400*	67.2	297.0	21,900*				95
100	62.4	291.3	20,900*	65.5	294.8	21,700*				100
105	60.6	288.4	20,100*	63.7	292.3	21,500*				105
110	58.7	285.4	19,400*	61.9	289.6	20,800*				110
115	56.8	282.1	18,700*	60.1	286.7	20,000*				115
120	54.9	278.6	18,100*	58.2	283.6	19,300*				120
125	52.9	274.8	17,500*	56.3	280.3	18,600*	62.7	287.1	21,100*	125
130	50.9	270.8	17,000*	54.4	276.7	18,000*	60.8	284.3	20,300*	130
135	48.8	266.4	16,500*	52.4	272.9	17,500*	59.0	281.3	19,600*	135
140	46.6	261.7	16,000*	50.3	268.7	16,900*	57.1	278.0	18,900*	140
145	44.3	256.6	15,600*	48.2	264.3	16,400*	55.2	274.6	18,300*	145
150	42.0	251.1	15,200*	46.0	259.5	16,000*	53.2	270.8	17,700*	150
155	39.5	245.1	14,800*	43.7	254.3	15,500*	51.2	266.8	17,200*	155
160	36.9	238.5	14,500*	41.3	248.6	15,100*	49.1	262.5	16,700*	160
165	34.1	231.3	14,100*	38.8	242.5	14,800*	46.9	257.8	16,200*	165
170	31.1	223.1	13,800*	36.2	235.7	14,400*	44.7	252.8	15,800*	170
175	27.8	213.9	13,600*	33.3	228.3	14,100*	42.3	247.3	15,400*	175
180	24.0	203.2	13,300*	30.2	219.9	13,800*	39.9	241.4	15,000*	180
185	19.5	190.0	13,100*	26.8	210.3	13,500*	37.3	234.9	14,600*	185
190	13.7	172.1	12,900*	22.9	199.0	13,300*	34.5	227.7	14,300*	190
195				18.2	184.9	13,100*	31.5	219.8	14,000*	195
200				11.6	164.7	12,900*	28.2	210.7	13,700*	200
205							24.5	200.2	13,400*	205
210							20.2	187.4	13,200*	210
215							14.6	170.5	13,000*	215
220							2.8	133.8	12,900*	220



124.7 ft

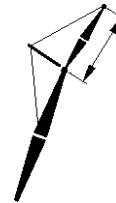
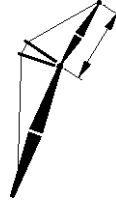
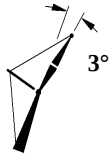
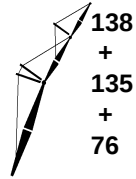
150 ft

40 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	73.7	314.7	22,400*							70
75	72.1	313.1	22,100*							75
80	70.5	311.3	21,900*							80
85	68.9	309.4	21,600*							85
90	67.3	307.3	21,400*	70.1	309.9	21,800*				90
95	65.7	305.0	21,200*	68.5	307.9	21,600*				95
100	64.0	302.6	20,600*	66.9	305.8	21,400*				100
105	62.3	299.9	19,800*	65.2	303.5	21,200*				105
110	60.6	297.1	19,100*	63.5	301.0	20,400*				110
115	58.8	294.1	18,500*	61.8	298.3	19,700*				115
120	57.0	290.8	17,900*	60.1	295.4	19,000*				120
125	55.2	287.3	17,300*	58.3	292.3	18,400*				125
130	53.3	283.6	16,800*	56.5	289.0	17,800*	62.5	295.8	19,900*	130
135	51.4	279.6	16,300*	54.7	285.5	17,200*	60.8	293.0	19,200*	135
140	49.4	275.4	15,800*	52.8	281.7	16,700*	59.0	289.9	18,600*	140
145	47.4	270.8	15,400*	50.9	277.6	16,200*	57.3	286.7	18,000*	145
150	45.3	265.9	15,000*	48.9	273.2	15,800*	55.4	283.3	17,500*	150
155	43.1	260.5	14,600*	46.8	268.6	15,300*	53.6	279.6	16,900*	155
160	40.8	254.8	14,300*	44.7	263.5	15,000*	51.7	275.6	16,500*	160
165	38.4	248.6	14,000*	42.5	258.1	14,600*	49.7	271.4	16,000*	165
170	35.9	241.7	13,700*	40.2	252.2	14,200*	47.7	266.9	15,600*	170
175	33.2	234.2	13,400*	37.7	245.9	13,900*	45.6	262.0	15,200*	175
180	30.2	225.8	13,100*	35.2	238.9	13,600*	43.4	256.7	14,800*	180
185	27.0	216.3	12,900*	32.4	231.1	13,300*	41.1	251.1	14,400*	185
190	23.3	205.2	12,700*	29.4	222.4	13,100*	38.7	244.9	14,100*	190
195	19.0	191.6	12,500*	26.0	212.6	12,800*	36.2	238.1	13,800*	195
200	13.3	173.2	12,300*	22.2	200.9	12,600*	33.5	230.7	13,500*	200
205				17.6	186.4	12,500*	30.6	222.4	13,200*	205
210				11.2	165.6	12,300*	27.4	213.1	13,000*	210
215							23.9	202.2	12,800*	215
220							19.6	189.1	12,600*	220
225							14.2	171.6	12,400*	225
230							2.7	133.9	12,100	230

14000 S-2

ANSI B30.5

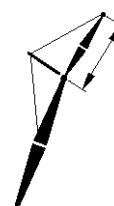
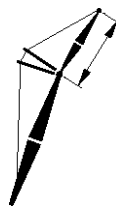
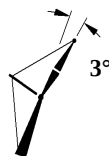
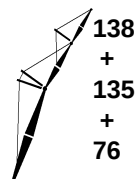


124.7 ft

160 ft

40 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.5	325.2	21,900*							70
75	73.1	323.6	21,700*							75
80	71.6	322.0	21,400*							80
85	70.0	320.1	21,200*							85
90	68.5	318.1	21,000*							90
95	66.9	316.0	20,800*	69.6	318.7	21,200*				95
100	65.4	313.7	20,200*	68.1	316.7	21,000*				100
105	63.8	311.2	19,400*	66.5	314.5	20,800*				105
110	62.2	308.6	18,800*	64.9	312.1	20,000*				110
115	60.5	305.8	18,200*	63.3	309.6	19,300*				115
120	58.9	302.7	17,600*	61.7	306.9	18,700*				120
125	57.2	299.5	17,000*	60.1	304.0	18,100*				125
130	55.4	296.1	16,500*	58.4	301.0	17,500*				130
135	53.7	292.4	16,100*	56.7	297.7	17,000*	62.4	304.4	18,900*	135
140	51.8	288.5	15,600*	55.0	294.2	16,500*	60.8	301.6	18,300*	140
145	50.0	284.3	15,200*	53.2	290.4	16,000*	59.1	298.6	17,700*	145
150	48.1	279.8	14,800*	51.4	286.5	15,600*	57.4	295.4	17,200*	150
155	46.1	275.0	14,500*	49.5	282.2	15,200*	55.7	292.0	16,700*	155
160	44.1	269.9	14,100*	47.5	277.6	14,800*	53.9	288.4	16,200*	160
165	41.9	264.3	13,800*	45.6	272.8	14,400*	52.1	284.5	15,800*	165
170	39.7	258.4	13,500*	43.5	267.5	14,100*	50.2	280.3	15,400*	170
175	37.4	251.9	13,200*	41.3	261.9	13,800*	48.3	275.9	15,000*	175
180	34.9	244.8	13,000*	39.1	255.8	13,500*	46.4	271.1	14,600*	180
185	32.3	237.1	12,700*	36.7	249.1	13,200*	44.3	266.0	14,300*	185
190	29.4	228.4	12,500*	34.2	241.9	12,900*	42.2	260.6	13,900*	190
195	26.3	218.6	12,300*	31.5	233.9	12,700*	40.0	254.7	13,600*	195
200	22.7	207.1	12,100*	28.6	224.9	12,500*	37.7	248.2	13,400*	200
205	18.5	193.2	12,000*	25.4	214.8	12,300*	35.2	241.3	13,100*	205
210	12.9	174.3	11,800*	21.7	202.8	12,100*	32.6	233.6	12,800*	210
215				17.2	187.9	11,900*	29.8	225.1	12,600*	215
220				10.9	166.5	11,800*	26.7	215.4	12,400*	220
225							23.2	204.2	12,200*	225
230							19.1	190.7	11,900	230
235							13.8	172.8	11,500	235
240							2.6	134.0	11,000	240



124.7 ft

170 ft

40 ft

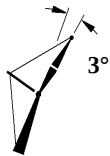
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	73.9	334.1	21,100*							75
80	72.5	332.5	20,800*							80
85	71.0	330.8	20,500*							85
90	69.6	328.9	20,300*							90
95	68.1	326.9	20,000*	70.6	329.4	20,000*				95
100	66.6	324.7	19,700*	69.2	327.5	19,800*				100
105	65.1	322.4	19,000*	67.7	325.4	19,600*				105
110	63.6	319.9	18,400*	66.2	323.2	19,300*				110
115	62.1	317.2	17,800*	64.7	320.8	18,900*				115
120	60.5	314.4	17,200*	63.2	318.3	18,300*				120
125	58.9	311.4	16,700*	61.7	315.6	17,700*				125
130	57.3	308.2	16,200*	60.1	312.7	17,100*				130
135	55.7	304.8	15,800*	58.5	309.6	16,600*				135
140	54.0	301.1	15,300*	56.9	306.4	16,100*	62.3	313.1	17,700*	140
145	52.3	297.3	14,900*	55.2	302.9	15,700*	60.7	310.3	17,300*	145
150	50.5	293.2	14,600*	53.5	299.2	15,300*	59.1	307.3	16,800*	150
155	48.7	288.8	14,200*	51.8	295.3	14,900*	57.5	304.1	16,300*	155
160	46.8	284.1	13,900*	50.0	291.1	14,500*	55.9	300.7	15,900*	160
165	44.9	279.1	13,600*	48.2	286.6	14,200*	54.2	297.1	15,500*	165
170	42.9	273.8	13,300*	46.3	281.9	13,800*	52.5	293.3	15,100*	170
175	40.9	268.0	13,000*	44.4	276.8	13,500*	50.7	289.2	14,700*	175
180	38.7	261.9	12,800*	42.4	271.4	13,300*	48.9	284.8	14,300*	180
185	36.4	255.1	12,500*	40.3	265.5	13,000*	47.1	280.2	14,000*	185
190	34.0	247.9	12,300*	38.1	259.2	12,700*	45.2	275.3	13,700*	190
195	31.5	239.8	12,100*	35.8	252.3	12,500*	43.2	270.0	13,400*	195
200	28.7	230.9	11,900*	33.3	244.9	12,300*	41.2	264.3	13,100*	200
205	25.6	220.8	11,700*	30.7	236.6	12,100*	39.0	258.2	12,900*	205
210	22.1	209.0	11,600*	27.9	227.4	11,900*	36.7	251.5	12,600*	210
215	18.0	194.7	11,400*	24.7	216.9	11,700*	34.4	244.3	12,400*	215
220	12.6	175.3	11,300*	21.1	204.6	11,600*	31.8	236.4	12,200*	220
225				16.7	189.3	11,400*	29.1	227.6	12,000*	225
230				10.6	167.4	11,300*	26.0	217.7	11,700	230
235							22.6	206.2	11,200	235
240							18.6	192.3	10,800	240
245							13.4	173.9	10,400	245
250							2.5	134.1	9,900	250

14000 S-2

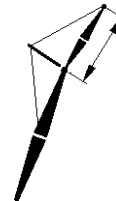
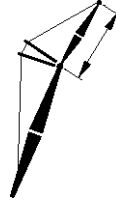
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



124.7 ft

140 ft

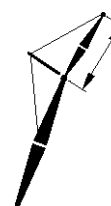
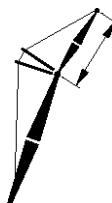
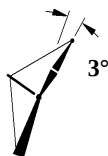
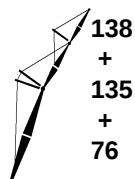
50 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	73.8	314.7	19,400*							70
75	72.2	313.1	19,200*							75
80	70.6	311.3	18,900*							80
85	69.0	309.4	18,600*							85
90	67.4	307.3	18,400*	70.2	309.9	18,800*				90
95	65.8	305.0	18,100*	68.6	307.9	18,600*				95
100	64.1	302.6	17,900*	67.0	305.8	18,400*				100
105	62.4	299.9	17,700*	65.3	303.5	18,100*				105
110	60.7	297.1	17,000*	63.6	301.0	17,900*				110
115	58.9	294.1	16,400*	61.9	298.3	17,600*				115
120	57.1	290.8	15,900*	60.2	295.4	16,900*				120
125	55.3	287.4	15,300*	58.4	292.3	16,300*				125
130	53.4	283.6	14,800*	56.6	289.0	15,800*	62.6	295.8	17,700*	130
135	51.5	279.6	14,400*	54.8	285.5	15,200*	60.9	293.0	17,200*	135
140	49.5	275.4	14,000*	52.9	281.7	14,800*	59.1	290.0	16,600*	140
145	47.5	270.8	13,600*	51.0	277.6	14,300*	57.4	286.7	16,000*	145
150	45.4	265.9	13,200*	49.0	273.3	13,900*	55.5	283.3	15,500*	150
155	43.2	260.5	12,800*	46.9	268.6	13,500*	53.7	279.6	15,000*	155
160	40.9	254.8	12,500*	44.8	263.6	13,100*	51.8	275.6	14,500*	160
165	38.5	248.6	12,200*	42.6	258.1	12,800*	49.8	271.4	14,100*	165
170	36.0	241.7	11,900*	40.3	252.3	12,400*	47.8	266.9	13,700*	170
175	33.3	234.2	11,600*	37.8	245.9	12,100*	45.7	262.0	13,300*	175
180	30.3	225.8	11,400*	35.3	238.9	11,900*	43.5	256.8	13,000*	180
185	27.1	216.3	11,200*	32.5	231.1	11,600*	41.2	251.1	12,600*	185
190	23.4	205.2	10,900*	29.5	222.5	11,400*	38.8	244.9	12,300*	190
195	19.1	191.6	10,800*	26.2	212.6	11,100*	36.3	238.1	12,000*	195
200	13.4	173.3	10,600*	22.4	200.9	10,900*	33.6	230.7	11,700*	200
205				17.8	186.4	10,700*	30.7	222.5	11,500*	205
210				11.3	165.7	10,600*	27.5	213.1	11,300*	210
215							24.0	202.2	11,000*	215
220							19.7	189.1	10,900*	220
225							14.3	171.7	10,700*	225
230							2.9	134.1	10,600*	230



ANSI B30.5

14000 S-2



124.7 ft

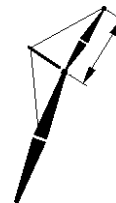
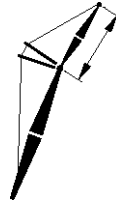
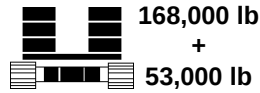
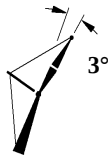
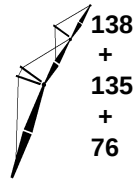
150 ft

50 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.6	325.2	19,100*							70
75	73.2	323.6	18,900*							75
80	71.6	322.0	18,600*							80
85	70.1	320.1	18,400*							85
90	68.6	318.1	18,200*							90
95	67.0	316.0	17,900*	69.7	318.7	18,400*				95
100	65.5	313.7	17,700*	68.2	316.7	18,100*				100
105	63.9	311.2	17,400*	66.6	314.5	17,900*				105
110	62.3	308.6	16,800*	65.0	312.1	17,700*				110
115	60.6	305.8	16,200*	63.5	309.6	17,300*				115
120	59.0	302.7	15,600*	61.8	306.9	16,600*				120
125	57.3	299.5	15,100*	60.2	304.1	16,100*				125
130	55.5	296.1	14,600*	58.5	301.0	15,500*				130
135	53.8	292.4	14,200*	56.8	297.7	15,000*	62.5	304.4	16,900*	135
140	52.0	288.5	13,800*	55.1	294.2	14,500*	60.8	301.6	16,300*	140
145	50.1	284.3	13,400*	53.3	290.5	14,100*	59.2	298.6	15,700*	145
150	48.2	279.8	13,000*	51.5	286.5	13,700*	57.5	295.4	15,200*	150
155	46.2	275.0	12,700*	49.6	282.2	13,300*	55.8	292.0	14,800*	155
160	44.2	269.9	12,300*	47.7	277.6	12,900*	54.0	288.4	14,300*	160
165	42.0	264.4	12,000*	45.7	272.8	12,600*	52.2	284.5	13,900*	165
170	39.8	258.4	11,700*	43.6	267.5	12,300*	50.3	280.3	13,500*	170
175	37.5	251.9	11,500*	41.4	261.9	12,000*	48.4	275.9	13,100*	175
180	35.0	244.8	11,200*	39.2	255.8	11,700*	46.5	271.1	12,800*	180
185	32.4	237.1	11,000*	36.8	249.2	11,400*	44.4	266.0	12,500*	185
190	29.5	228.4	10,800*	34.3	241.9	11,200*	42.3	260.6	12,100*	190
195	26.4	218.6	10,600*	31.6	233.9	11,000*	40.1	254.7	11,900*	195
200	22.8	207.1	10,400*	28.7	225.0	10,700*	37.8	248.3	11,600*	200
205	18.6	193.2	10,200*	25.5	214.8	10,500*	35.3	241.3	11,300*	205
210	13.0	174.3	10,100*	21.8	202.8	10,400*	32.7	233.6	11,100*	210
215				17.3	187.9	10,200*	29.9	225.1	10,900*	215
220				11.0	166.5	10,100*	26.8	215.4	10,700*	220
225							23.3	204.2	10,500*	225
230							19.2	190.7	10,300*	230
235							13.9	172.8	10,200*	235
240							2.8	134.2	10,100*	240

14000 S-2

ANSI B30.5



124.7 ft

160 ft

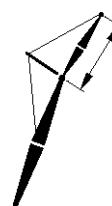
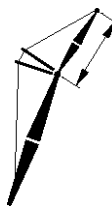
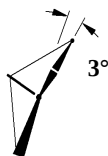
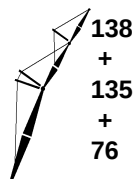
50 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.0	334.1	18,500*							75
80	72.6	332.5	18,300*							80
85	71.1	330.8	18,100*							85
90	69.7	328.9	17,900*							90
95	68.2	326.9	17,700*							95
100	66.7	324.7	17,500*	70.7	329.4	18,000*				100
105	65.2	322.4	17,100*	69.3	327.5	17,800*				105
110	63.7	319.9	16,500*	67.8	325.4	17,600*				110
115	62.2	317.3	15,900*	66.3	323.2	17,400*				115
120	60.6	314.4	15,400*	64.8	320.8	17,000*				120
125	59.0	311.4	14,900*	63.3	318.3	16,400*				125
130	57.4	308.2	14,400*	61.7	315.6	15,800*				130
135	55.8	304.8	14,000*	60.2	312.7	15,300*				135
140	54.1	301.1	13,600*	58.6	309.6	14,800*	62.4	313.1	16,000*	140
145	52.3	297.3	13,200*	57.0	306.4	14,300*	60.8	310.3	15,500*	145
150	50.6	293.2	12,800*	55.3	302.9	13,900*				150
155	48.8	288.8	12,500*	53.6	299.2	13,500*	59.2	307.3	15,000*	155
160	46.9	284.1	12,200*	51.9	295.3	13,100*	57.6	304.1	14,500*	160
165	45.0	279.1	11,900*	50.1	291.1	12,800*	56.0	300.7	14,100*	165
170	43.0	273.8	11,600*	48.3	286.6	12,400*	54.3	297.1	13,700*	170
175	41.0	268.0	11,300*	46.4	281.9	12,100*	52.6	293.3	13,300*	175
180	38.8	261.9	11,100*	44.5	276.8	11,800*	50.8	289.2	12,900*	180
185	36.5	255.2	10,900*	42.5	271.4	11,600*	49.0	284.9	12,600*	185
190	34.1	247.9	10,600*	40.4	265.5	11,300*	47.2	280.2	12,300*	190
195	31.5	239.8	10,400*	38.2	259.2	11,100*	45.3	275.3	12,000*	195
200	28.8	230.9	10,300*	35.9	252.4	10,800*	43.3	270.0	11,700*	200
205	25.7	220.8	10,100*	33.5	244.9	10,600*	41.2	264.3	11,400*	205
210	22.2	209.0	9,900*	30.8	236.6	10,400*	39.1	258.2	11,200*	210
215	18.1	194.7	9,800*	28.0	227.4	10,200*	36.8	251.6	11,000*	215
220	12.7	175.4	9,700*	24.8	216.9	10,100*	34.5	244.3	10,700*	220
225				21.2	204.6	9,900*	31.9	236.4	10,500*	225
230				16.8	189.3	9,800*	29.2	227.6	10,300*	230
235				10.7	167.4	9,700*	26.1	217.7	10,200*	235
240							22.7	206.2	10,000*	240
245							18.7	192.3	9,900*	245
250							13.6	173.9	9,700*	250
							2.7	134.4	9,700*	250



ANSI B30.5

14000 S-2



124.7 ft

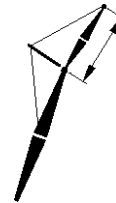
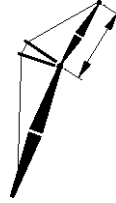
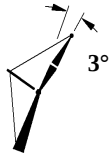
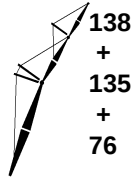
170 ft

50 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.7	344.5	17,800*							75
80	73.4	343.0	17,500*							80
85	72.0	341.4	17,300*							85
90	70.6	339.6	17,000*							90
95	69.2	337.7	16,800*							95
100	67.8	335.6	16,600*	70.2	338.2	16,700*				100
105	66.4	333.5	16,300*	68.9	336.2	16,500*				105
110	65.0	331.1	16,100*	67.4	334.1	16,300*				110
115	63.5	328.6	15,600*	66.0	331.9	16,100*				115
120	62.1	325.9	15,100*	64.6	329.5	15,900*				120
125	60.6	323.1	14,600*	63.1	327.0	15,500*				125
130	59.1	320.1	14,100*	61.7	324.3	15,000*				130
135	57.5	316.9	13,700*	60.2	321.4	14,500*				135
140	56.0	313.5	13,300*	58.6	318.3	14,100*				140
145	54.3	309.9	13,000*	57.1	315.1	13,700*	62.3	321.8	14,900*	145
150	52.7	306.1	12,600*	55.5	311.6	13,300*	60.8	318.9	14,700*	150
155	51.0	302.0	12,300*	53.9	308.0	12,900*	59.3	316.0	14,200*	155
160	49.3	297.7	12,000*	52.3	304.1	12,600*	57.7	312.8	13,800*	160
165	47.6	293.2	11,700*	50.6	300.0	12,200*	56.2	309.4	13,400*	165
170	45.8	288.3	11,400*	48.9	295.6	11,900*	54.6	305.8	13,100*	170
175	43.9	283.1	11,200*	47.1	291.0	11,600*	52.9	302.1	12,700*	175
180	42.0	277.6	10,900*	45.3	286.0	11,400*	51.3	298.0	12,400*	180
185	40.0	271.6	10,700*	43.4	280.8	11,100*	49.6	293.8	12,100*	185
190	37.8	265.2	10,500*	41.4	275.1	10,900*	47.8	289.2	11,800*	190
195	35.6	258.3	10,300*	39.4	269.0	10,700*	46.0	284.4	11,500*	195
200	33.3	250.8	10,100*	37.3	262.5	10,400*	44.2	279.3	11,300*	200
205	30.8	242.5	9,900*	35.0	255.4	10,200*	42.2	273.8	11,000*	205
210	28.1	233.4	9,700*	32.6	247.7	10,100*	40.2	267.9	10,800*	210
215	25.1	223.0	9,600*	30.1	239.2	9,900*	38.1	261.6	10,600*	215
220	21.7	210.9	9,400*	27.3	229.8	9,700*	35.9	254.8	10,400*	220
225	17.7	196.2	9,300*	24.2	219.0	9,600*	33.6	247.3	10,200*	225
230	12.4	176.4	9,200*	20.7	206.4	9,400*	31.1	239.1	10,000*	230
235				16.4	190.7	9,300*	28.5	230.1	9,800*	235
240				10.5	168.2	9,200*	25.5	219.9	9,700*	240
245							22.2	208.1	9,500*	245
250							18.3	193.9	9,400*	250
255							13.2	175.0	9,300*	255
260							2.6	134.5	9,200*	260

14000 S-2

ANSI B30.5

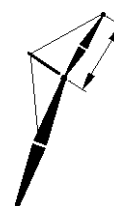
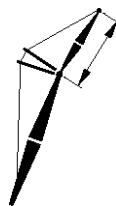
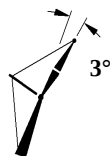
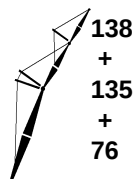


124.7 ft

140 ft

60 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.4	325.2	16,700*							70
75	73.0	323.7	16,300*							75
80	71.4	322.0	16,000*							80
85	69.9	320.2	15,600*							85
90	68.4	318.2	15,300*							90
95	66.8	316.1	15,000*	69.5	318.8	15,400*				95
100	65.3	313.8	14,700*	68.0	316.7	15,100*				100
105	63.7	311.3	14,400*	66.4	314.5	14,800*				105
110	62.1	308.6	14,100*	64.9	312.2	14,500*				110
115	60.4	305.8	13,800*	63.3	309.7	14,200*				115
120	58.8	302.8	13,500*	61.6	307.0	13,900*				120
125	57.1	299.6	13,300*	60.0	304.1	13,700*				125
130	55.3	296.1	12,900*	58.3	301.0	13,400*				130
135	53.6	292.5	12,500*	56.6	297.8	13,200*	62.3	304.5	13,700*	135
140	51.8	288.5	12,100*	54.9	294.2	12,800*	60.7	301.7	13,500*	140
145	49.9	284.3	11,800*	53.1	290.5	12,400*	59.0	298.7	13,300*	145
150	48.0	279.9	11,400*	51.3	286.5	12,100*	57.3	295.5	13,000*	150
155	46.0	275.1	11,100*	49.4	282.2	11,700*	55.6	292.1	12,800*	155
160	44.0	269.9	10,800*	47.5	277.7	11,400*	53.8	288.4	12,600*	160
165	41.8	264.4	10,600*	45.5	272.8	11,100*	52.0	284.5	12,200*	165
170	39.6	258.5	10,300*	43.4	267.6	10,800*	50.2	280.4	11,900*	170
175	37.3	252.0	10,000*	41.3	261.9	10,500*	48.2	275.9	11,500*	175
180	34.8	244.9	9,800*	39.0	255.9	10,300*	46.3	271.2	11,200*	180
185	32.2	237.1	9,600*	36.7	249.2	10,000*	44.2	266.1	10,900*	185
190	29.4	228.5	9,400*	34.1	242.0	9,800*	42.1	260.6	10,700*	190
195	26.2	218.7	9,200*	31.5	234.0	9,600*	39.9	254.7	10,400*	195
200	22.6	207.3	9,000*	28.5	225.1	9,300*	37.6	248.3	10,100*	200
205	18.4	193.4	8,800*	25.3	214.9	9,100*	35.2	241.4	9,900*	205
210	12.9	174.6	8,600*	21.6	202.9	9,000*	32.6	233.7	9,700*	210
215				17.1	188.0	8,800*	29.7	225.2	9,500*	215
220				10.9	166.8	8,600*	26.6	215.5	9,300*	220
225							23.2	204.4	9,100*	225
230							19.1	190.9	8,900*	230
235							13.8	173.0	8,700*	235
240							3.0	135.5	8,600*	240



124.7 ft

150 ft

60 ft

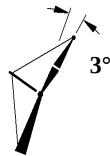
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	73.8	334.2	15,800*							75
80	72.4	332.6	15,500*							80
85	70.9	330.8	15,200*							85
90	69.5	329.0	14,900*							90
95	68.0	327.0	14,600*	70.5	329.4	15,000*				95
100	66.5	324.8	14,300*	69.1	327.5	14,700*				100
105	65.0	322.5	14,000*	67.6	325.5	14,400*				105
110	63.5	320.0	13,700*	66.1	323.3	14,100*				110
115	62.0	317.3	13,500*	64.6	320.9	13,900*				115
120	60.4	314.5	13,200*	63.1	318.4	13,600*				120
125	58.8	311.5	13,000*	61.6	315.6	13,400*				125
130	57.2	308.2	12,800*	60.0	312.8	13,100*				130
135	55.6	304.8	12,400*	58.4	309.7	12,900*				135
140	53.9	301.2	12,000*	56.8	306.4	12,700*	62.2	313.1	13,100*	140
145	52.2	297.3	11,700*	55.1	303.0	12,300*	60.6	310.3	12,900*	145
150	50.4	293.2	11,400*	53.4	299.3	12,000*	59.0	307.3	12,700*	150
155	48.6	288.9	11,100*	51.7	295.3	11,600*	57.4	304.1	12,500*	155
160	46.8	284.2	10,800*	49.9	291.2	11,300*	55.8	300.8	12,300*	160
165	44.8	279.2	10,500*	48.1	286.7	11,000*	54.1	297.2	12,100*	165
170	42.8	273.9	10,200*	46.2	282.0	10,700*	52.4	293.3	11,800*	170
175	40.8	268.1	10,000*	44.3	276.9	10,500*	50.7	289.2	11,500*	175
180	38.6	261.9	9,800*	42.3	271.4	10,200*	48.9	284.9	11,200*	180
185	36.4	255.2	9,600*	40.2	265.6	10,000*	47.0	280.3	10,900*	185
190	34.0	247.9	9,300*	38.0	259.3	9,700*	45.1	275.3	10,600*	190
195	31.4	239.9	9,200*	35.7	252.4	9,500*	43.1	270.0	10,300*	195
200	28.6	231.0	9,000*	33.3	244.9	9,300*	41.1	264.4	10,100*	200
205	25.5	220.9	8,800*	30.7	236.7	9,100*	38.9	258.2	9,900*	205
210	22.1	209.2	8,600*	27.8	227.5	8,900*	36.7	251.6	9,700*	210
215	18.0	194.9	8,500*	24.7	217.0	8,800*	34.3	244.4	9,400*	215
220	12.6	175.6	8,300*	21.1	204.7	8,600*	31.7	236.5	9,200*	220
225				16.7	189.5	8,500*	29.0	227.7	9,100*	225
230				10.6	167.7	8,300*	26.0	217.8	8,900*	230
235							22.6	206.3	8,700*	235
240							18.6	192.5	8,600*	240
245							13.4	174.1	8,400*	245
250							2.9	135.6	8,300*	250

14000 S-2

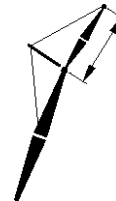
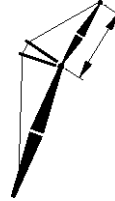
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



124.7 ft

160 ft

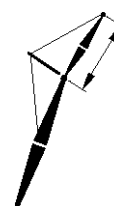
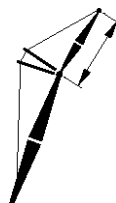
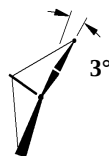
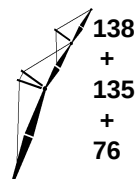
60 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.6	344.6	15,200*							75
80	73.2	343.1	14,900*							80
85	71.8	341.4	14,600*							85
90	70.4	339.7	14,300*							90
95	69.1	337.8	14,100*							95
100	67.7	335.7	13,800*	70.1	338.2	14,100*				100
105	66.2	333.5	13,600*	68.7	336.3	13,900*				105
110	64.8	331.1	13,300*	67.3	334.2	13,600*				110
115	63.4	328.6	13,100*	65.9	332.0	13,400*				115
120	61.9	326.0	12,900*	64.4	329.6	13,200*				120
125	60.4	323.1	12,700*	63.0	327.0	13,000*				125
130	58.9	320.1	12,400*	61.5	324.3	12,700*				130
135	57.3	316.9	12,200*	60.0	321.4	12,500*				135
140	55.8	313.5	12,000*	58.5	318.4	12,300*				140
145	54.2	310.0	11,600*	56.9	315.1	12,100*	62.1	321.8	12,500*	145
150	52.5	306.1	11,300*	55.3	311.7	11,900*	60.6	319.0	12,300*	150
155	50.9	302.1	11,000*	53.8	308.0	11,600*	59.1	316.0	12,100*	155
160	49.2	297.8	10,800*	52.1	304.1	11,300*	57.6	312.8	12,000*	160
165	47.4	293.2	10,500*	50.4	300.0	11,000*	56.0	309.5	11,800*	165
170	45.6	288.4	10,300*	48.7	295.7	10,700*	54.4	305.9	11,600*	170
175	43.8	283.2	10,000*	46.9	291.0	10,500*	52.8	302.1	11,400*	175
180	41.8	277.6	9,800*	45.1	286.1	10,200*	51.1	298.1	11,100*	180
185	39.8	271.7	9,600*	43.2	280.8	10,000*	49.4	293.8	10,800*	185
190	37.7	265.3	9,400*	41.3	275.2	9,800*	47.7	289.3	10,600*	190
195	35.5	258.4	9,200*	39.2	269.1	9,500*	45.9	284.5	10,300*	195
200	33.1	250.9	9,000*	37.1	262.6	9,300*	44.0	279.4	10,100*	200
205	30.6	242.6	8,800*	34.9	255.5	9,100*	42.1	273.9	9,900*	205
210	27.9	233.4	8,600*	32.5	247.8	8,900*	40.1	268.0	9,600*	210
215	24.9	223.1	8,500*	29.9	239.3	8,800*	38.0	261.7	9,400*	215
220	21.6	211.0	8,300*	27.1	229.9	8,600*	35.8	254.8	9,200*	220
225	17.5	196.4	8,200*	24.1	219.1	8,400*	33.5	247.4	9,000*	225
230	12.2	176.6	8,100*	20.5	206.5	8,300*	31.0	239.2	8,900*	230
235				16.3	190.8	8,200*	28.3	230.2	8,700*	235
240				10.4	168.5	8,100*	25.4	220.0	8,500*	240
245							22.0	208.2	8,400*	245
250							18.1	194.0	8,300*	250
255							13.1	175.2	8,100*	255
260							2.8	135.8	8,100*	260



ANSI B30.5

14000 S-2



124.7 ft

170 ft

60 ft

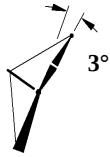
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
80	73.9	353.5	14,200*							80
85	72.6	352.0	14,000*							85
90	71.3	350.3	13,800*							90
95	70.0	348.5	13,500*							95
100	68.7	346.5	13,300*	71.0	348.9	13,500*				100
105	67.3	344.4	13,100*	69.7	347.0	13,300*				105
110	66.0	342.2	12,900*	68.3	345.1	13,100*				110
115	64.6	339.8	12,600*	67.0	342.9	12,900*				115
120	63.2	337.3	12,400*	65.6	340.7	12,700*				120
125	61.8	334.6	12,200*	64.2	338.2	12,500*				125
130	60.4	331.8	12,000*	62.8	335.7	12,300*				130
135	58.9	328.8	11,800*	61.4	333.0	12,100*				135
140	57.5	325.6	11,700*	60.0	330.1	11,900*				140
145	56.0	322.2	11,500*	58.5	327.0	11,700*				145
150	54.5	318.7	11,200*	57.1	323.8	11,600*	62.0	330.5	11,800*	150
155	52.9	314.9	10,900*	55.6	320.4	11,400*	60.6	327.6	11,700*	155
160	51.3	310.9	10,700*	54.0	316.8	11,200*	59.1	324.7	11,500*	160
165	49.7	306.7	10,400*	52.5	313.0	10,900*	57.7	321.5	11,400*	165
170	48.0	302.2	10,100*	50.9	308.9	10,600*	56.2	318.2	11,200*	170
175	46.3	297.5	9,900*	49.2	304.6	10,300*	54.7	314.6	11,100*	175
180	44.5	292.4	9,600*	47.6	300.1	10,100*	53.1	310.9	11,000*	180
185	42.7	287.1	9,400*	45.8	295.2	9,800*	51.5	306.9	10,700*	185
190	40.8	281.4	9,200*	44.1	290.1	9,600*	49.9	302.7	10,500*	190
195	38.9	275.2	9,000*	42.2	284.7	9,400*	48.2	298.3	10,200*	195
200	36.8	268.6	8,800*	40.3	278.8	9,200*	46.5	293.6	9,900*	200
205	34.7	261.5	8,600*	38.3	272.6	9,000*	44.8	288.6	9,700*	205
210	32.4	253.8	8,500*	36.3	265.9	8,800*	43.0	283.3	9,500*	210
215	29.9	245.3	8,300*	34.1	258.6	8,600*	41.1	277.6	9,300*	215
220	27.3	235.8	8,200*	31.7	250.6	8,400*	39.1	271.5	9,100*	220
225	24.4	225.2	8,000*	29.2	241.9	8,300*	37.1	265.0	8,900*	225
230	21.1	212.8	7,900*	26.5	232.2	8,200*	35.0	258.0	8,700*	230
235	17.1	197.8	7,800*	23.5	221.1	8,000*	32.7	250.3	8,500*	235
240	12.0	177.6	7,700*	20.1	208.2	7,900*	30.3	241.9	8,400*	240
245				15.9	192.2	7,800*	27.6	232.6	8,200*	245
250				10.1	169.3	7,700*	24.8	222.2	8,100*	250
255							21.5	210.1	8,000*	255
260							17.7	195.5	7,900*	260
265							12.8	176.3	7,800*	265
270							2.7	136.0	7,700*	270

14000 S-2

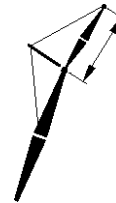
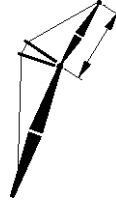
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



144.4 ft

140 ft

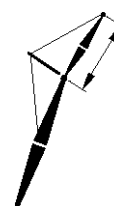
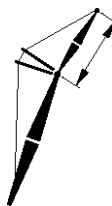
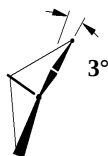
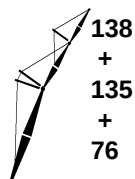
30 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	73.4	315.4	27,300*							65
70	71.7	313.7	27,000*							70
75	69.9	311.9	26,800*							75
80	68.1	310.0	26,500*							80
85	66.2	307.8	26,200*	69.9	310.9	26,800*				85
90	64.4	305.4	26,000*	68.1	308.9	26,600*				90
95	62.5	302.9	25,800*	66.2	306.8	26,300*				95
100	60.6	300.1	25,100*	64.4	304.4	26,100*				100
105	58.6	297.1	24,200*	62.5	301.9	25,900*				105
110	56.6	293.9	23,300*	60.6	299.1	25,200*				110
115	54.6	290.4	22,500*	58.6	296.1	24,300*				115
120	52.5	286.6	21,800*	56.6	292.8	23,400*				120
125	50.3	282.5	21,100*	54.6	289.3	22,700*	62.4	297.5	25,700*	125
130	48.1	278.1	20,500*	52.5	285.6	21,900*	60.5	294.8	25,100*	130
135	45.8	273.4	19,900*	50.3	281.5	21,300*	58.5	291.8	24,200*	135
140	43.4	268.2	19,400*	48.1	277.1	20,600*	56.5	288.5	23,400*	140
145	40.8	262.5	18,900*	45.8	272.3	20,000*	54.5	285.0	22,700*	145
150	38.2	256.3	18,400*	43.4	267.2	19,500*	52.4	281.2	22,000*	150
155	35.3	249.5	18,000*	40.8	261.5	19,000*	50.2	277.1	21,300	155
160	32.3	241.9	17,600*	38.2	255.3	18,500*	48.0	272.7	20,300	160
165	28.9	233.2	17,200*	35.3	248.5	18,100*	45.7	267.9	19,400	165
170	25.2	223.2	16,900*	32.3	240.9	17,700*	43.2	262.7	18,600	170
175	20.8	211.0	16,600*	28.9	232.2	17,300*	40.7	257.0	17,800	175
180	15.2	195.1	16,300*	25.2	222.2	17,000*	38.0	250.8	17,100	180
185	5.0	165.2	15,000*	20.8	210.1	16,700*	35.2	243.9	16,400	185
190				15.2	194.1	16,400*	32.1	236.2	15,800	190
195				5.1	164.5	16,200*	28.7	227.5	15,100	195
200							25.0	217.4	14,500	200
205							20.5	205.1	14,000	205
210							14.8	188.9	13,400	210
215							3.6	155.9	12,800	215



ANSI B30.5

14000 S-2



144.4 ft

150 ft

30 ft

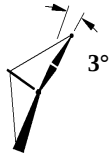
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	74.3	325.8	26,800*							65
70	72.7	324.3	26,500*							70
75	71.0	322.6	26,300*							75
80	69.3	320.7	26,000*							80
85	67.6	318.7	25,800*							85
90	65.9	316.5	25,600*	69.3	319.7	26,100*				90
95	64.2	314.1	25,300*	67.6	317.7	25,800*				95
100	62.4	311.5	24,600*	65.9	315.5	25,600*				100
105	60.5	308.8	23,800*	64.2	313.1	25,500*				105
110	58.7	305.8	23,000*	62.4	310.5	24,700*				110
115	56.8	302.5	22,200*	60.6	307.7	23,900*				115
120	54.9	299.1	21,500*	58.7	304.7	23,100*				120
125	52.9	295.4	20,900*	56.8	301.5	22,300*				125
130	50.9	291.4	20,300*	54.9	298.1	21,600*	62.3	306.2	24,600*	130
135	48.8	287.1	19,700*	52.9	294.4	21,000*	60.5	303.4	23,800*	135
140	46.7	282.4	19,200*	50.9	290.4	20,400*	58.6	300.4	23,000*	140
145	44.4	277.4	18,700*	48.8	286.1	19,800*	56.7	297.2	22,300*	145
150	42.1	272.0	18,200*	46.7	281.4	19,300*	54.8	293.7	21,600*	150
155	39.6	266.1	17,800*	44.4	276.4	18,800*	52.8	290.0	21,000*	155
160	37.0	259.7	17,400*	42.1	271.0	18,300*	50.8	286.0	20,200	160
165	34.3	252.6	17,000*	39.7	265.1	17,900*	48.7	281.6	19,300	165
170	31.3	244.7	16,700*	37.1	258.7	17,500*	46.5	277.0	18,500	170
175	28.1	235.7	16,400*	34.3	251.6	17,100*	44.3	272.0	17,700	175
180	24.4	225.3	16,100*	31.4	243.7	16,700*	42.0	266.5	17,000	180
185	20.2	212.8	15,800*	28.1	234.7	16,400*	39.5	260.6	16,300	185
190	14.7	196.3	15,600*	24.5	224.3	16,100*	36.9	254.1	15,600	190
195	4.8	165.6	13,800*	20.2	211.8	15,900*	34.2	247.0	15,000	195
200				14.8	195.4	15,700*	31.2	239.0	14,400	200
205				4.9	164.9	15,100*	27.9	230.0	13,900	205
210							24.2	219.5	13,300	210
215							19.9	206.9	12,800	215
220							14.4	190.1	12,300	220
225							3.5	156.2	11,800	225

14000 S-2

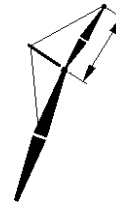
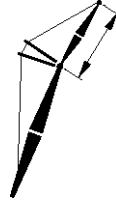
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



144.4 ft

160 ft

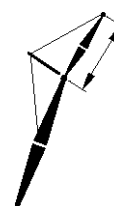
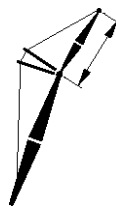
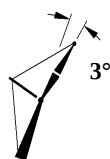
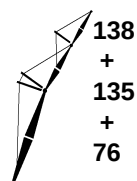
30 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	73.6	334.8	25,900*							70
75	72.1	333.2	25,600*							75
80	70.5	331.4	25,400*							80
85	68.9	329.5	25,200*							85
90	67.2	327.5	25,000*	70.5	330.4	24,900*				90
95	65.6	325.2	24,800*	68.9	328.5	24,700*				95
100	63.9	322.8	24,100*	67.2	326.4	24,500*				100
105	62.2	320.2	23,300*	65.6	324.2	24,300*				105
110	60.5	317.4	22,500*	63.9	321.8	24,000*				110
115	58.8	314.4	21,800*	62.2	319.2	23,400*				115
120	57.0	311.2	21,200*	60.5	316.4	22,600*				120
125	55.2	307.8	20,600*	58.8	313.4	22,000*				125
130	53.3	304.1	20,000*	57.0	310.2	21,300*				130
135	51.4	300.2	19,400*	55.2	306.8	20,700*	62.2	314.9	22,100*	135
140	49.5	296.0	18,900*	53.3	303.1	20,100*	60.4	312.1	22,000*	140
145	47.4	291.5	18,500*	51.4	299.2	19,500*	58.7	309.1	21,800*	145
150	45.3	286.6	18,000*	49.5	295.0	19,000*	56.9	305.9	21,200*	150
155	43.2	281.4	17,600*	47.4	290.5	18,600*	55.1	302.4	20,600*	155
160	40.9	275.8	17,200*	45.3	285.6	18,100*	53.2	298.7	19,800	160
165	38.5	269.6	16,900*	43.2	280.4	17,700*	51.3	294.8	18,900	165
170	36.0	262.9	16,500*	40.9	274.8	17,300*	49.3	290.6	18,100	170
175	33.3	255.6	16,200*	38.5	268.6	16,900*	47.3	286.0	17,400	175
180	30.5	247.4	15,900*	36.0	261.9	16,600*	45.2	281.2	16,600	180
185	27.3	238.1	15,700*	33.4	254.6	16,300*	43.0	275.9	15,900	185
190	23.8	227.4	15,400*	30.5	246.4	16,000*	40.8	270.3	15,300	190
195	19.6	214.5	15,200*	27.3	237.1	15,700*	38.4	264.1	14,700	195
200	14.3	197.6	15,000*	23.8	226.4	15,500*	35.9	257.4	14,100	200
205	4.7	165.9	12,500*	19.6	213.5	15,300*	33.2	250.0	13,500	205
210				14.3	196.6	15,100*	30.3	241.7	13,000	210
215				4.8	165.2	13,700*	27.1	232.4	12,500	215
220							23.6	221.6	12,000	220
225							19.4	208.5	11,500	225
230							14.0	191.3	11,100	230
235							3.4	156.4	10,600	235



ANSI B30.5

14000 S-2



144.4 ft

170 ft

30 ft

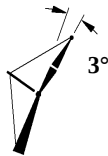
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.5	345.2	23,500*							70
75	73.0	343.7	23,400*							75
80	71.5	342.0	22,900*							80
85	70.0	340.2	22,600*							85
90	68.4	338.3	22,300*							90
95	66.9	336.2	22,100*	70.0	339.2	22,100*				95
100	65.3	333.9	21,800*	68.4	337.3	21,900*				100
105	63.7	331.5	21,500*	66.9	335.1	21,600*				105
110	62.1	328.9	21,300*	65.3	332.9	21,400*				110
115	60.5	326.1	21,100*	63.8	330.5	21,100*				115
120	58.8	323.1	20,700*	62.1	327.9	20,900*				120
125	57.2	319.9	20,100*	60.5	325.1	20,700*				125
130	55.4	316.5	19,600*	58.8	322.1	20,600*				130
135	53.7	312.9	19,100*	57.2	318.9	20,200*				135
140	51.9	309.0	18,600*	55.4	315.5	19,700*	62.0	323.5	19,400*	140
145	50.0	304.9	18,100*	53.7	311.9	19,100*	60.4	320.7	19,300*	145
150	48.1	300.5	17,700*	51.9	308.0	18,700*	58.8	317.7	19,200*	150
155	46.2	295.8	17,300*	50.0	303.9	18,200*	57.1	314.5	19,100*	155
160	44.1	290.7	16,900*	48.1	299.5	17,800*	55.3	311.1	19,000*	160
165	42.0	285.2	16,600*	46.2	294.7	17,400*	53.6	307.5	18,700	165
170	39.8	279.4	16,300*	44.1	289.7	17,000*	51.8	303.6	17,900	170
175	37.5	273.0	16,000*	42.0	284.2	16,700*	49.9	299.5	17,100	175
180	35.1	266.1	15,700*	39.8	278.4	16,300*	48.0	295.0	16,400	180
185	32.5	258.5	15,400*	37.5	272.0	16,000*	46.0	290.3	15,700	185
190	29.7	250.0	15,200*	35.1	265.1	15,800*	44.0	285.2	15,000	190
195	26.6	240.5	15,000*	32.5	257.5	15,500*	41.9	279.8	14,400	195
200	23.1	229.4	14,700*	29.7	249.0	15,200*	39.7	273.9	13,800	200
205	19.1	216.2	14,600*	26.6	239.5	15,000*	37.4	267.5	13,300	205
210	13.9	198.8	13,500*	23.2	228.5	14,800*	34.9	260.5	12,800	210
215	4.6	166.3	11,300*	19.1	215.2	14,600*	32.3	252.9	12,300	215
220				14.0	197.8	14,100*	29.5	244.4	11,800	220
225				4.7	165.6	12,500*	26.4	234.7	11,300	225
230							23.0	223.6	10,900	230
235							18.9	210.2	10,400	235
240							13.6	192.4	10,000	240
245							3.3	156.7	9,600	245

14000 S-2

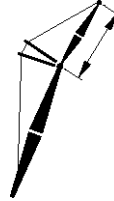
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



144.4 ft

140 ft

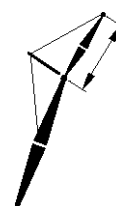
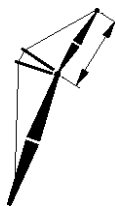
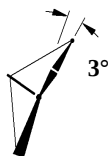
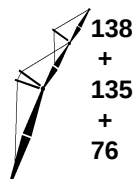
40 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	74.8	325.8	22,800*							65
70	73.1	324.2	22,600*							70
75	71.4	322.5	22,300*							75
80	69.8	320.7	22,000*							80
85	68.1	318.6	21,800*							85
90	66.3	316.5	21,500*	69.8	319.6	22,100*				90
95	64.6	314.1	21,300*	68.1	317.6	21,800*				95
100	62.8	311.5	21,000*	66.3	315.4	21,600*				100
105	61.0	308.7	20,200*	64.6	313.0	21,400*				105
110	59.1	305.7	19,500*	62.8	310.5	21,100*				110
115	57.2	302.5	18,900*	61.0	307.7	20,300*				115
120	55.3	299.0	18,200*	59.1	304.7	19,600*				120
125	53.3	295.3	17,600*	57.2	301.5	18,900*				125
130	51.3	291.3	17,100*	55.3	298.0	18,300*	62.7	306.1	21,000*	130
135	49.2	287.0	16,600*	53.3	294.3	17,700*	60.9	303.4	20,300*	135
140	47.1	282.4	16,100*	51.3	290.3	17,200*	59.0	300.4	19,600*	140
145	44.8	277.4	15,700*	49.2	286.0	16,700*	57.1	297.1	18,900*	145
150	42.5	272.0	15,300*	47.1	281.4	16,200*	55.2	293.6	18,300*	150
155	40.0	266.0	14,900*	44.8	276.4	15,800*	53.2	289.9	17,800*	155
160	37.5	259.6	14,500*	42.5	270.9	15,300*	51.2	285.9	17,200*	160
165	34.7	252.5	14,200*	40.0	265.0	15,000*	49.1	281.6	16,700*	165
170	31.7	244.6	13,900*	37.5	258.6	14,600*	47.0	276.9	16,200*	170
175	28.5	235.6	13,600*	34.7	251.5	14,300*	44.7	271.9	15,800*	175
180	24.8	225.2	13,400*	31.8	243.6	14,000*	42.4	266.5	15,400*	180
185	20.5	212.6	13,100*	28.5	234.6	13,700*	39.9	260.5	15,000*	185
190	15.1	196.1	12,900*	24.8	224.2	13,400*	37.3	254.1	14,700*	190
195	5.1	164.9	12,800*	20.6	211.7	13,200*	34.5	246.9	14,300*	195
200				15.1	195.2	13,000*	31.6	238.9	14,000*	200
205				5.2	164.2	12,900*	28.3	229.9	13,700*	205
210							24.6	219.4	13,500*	210
215							20.3	206.7	13,100	215
220							14.7	189.9	12,600	220
225							3.6	155.2	12,000	225



ANSI B30.5

14000 S-2



144.4 ft

150 ft

40 ft

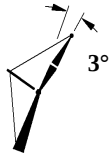
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.0	334.7	22,200*							70
75	72.5	333.1	21,900*							75
80	70.9	331.4	21,700*							80
85	69.3	329.5	21,400*							85
90	67.6	327.4	21,200*	70.9	330.3	21,700*				90
95	66.0	325.1	21,000*	69.3	328.4	21,500*				95
100	64.3	322.7	20,600*	67.6	326.4	21,300*				100
105	62.6	320.1	19,900*	66.0	324.1	21,100*				105
110	60.9	317.4	19,200*	64.3	321.7	20,700*				110
115	59.2	314.4	18,600*	62.6	319.1	20,000*				115
120	57.4	311.2	17,900*	60.9	316.3	19,300*				120
125	55.6	307.7	17,400*	59.2	313.4	18,600*				125
130	53.7	304.1	16,900*	57.4	310.1	18,000*				130
135	51.8	300.1	16,400*	55.6	306.7	17,500*	62.5	314.8	19,900*	135
140	49.8	295.9	15,900*	53.7	303.0	16,900*	60.8	312.0	19,200*	140
145	47.8	291.4	15,500*	51.8	299.1	16,400*	59.1	309.0	18,600*	145
150	45.7	286.6	15,100*	49.8	294.9	16,000*	57.3	305.8	18,000*	150
155	43.5	281.3	14,700*	47.8	290.4	15,500*	55.5	302.4	17,500*	155
160	41.3	275.7	14,300*	45.7	285.5	15,100*	53.6	298.7	17,000*	160
165	38.9	269.5	14,000*	43.6	280.3	14,800*	51.7	294.7	16,500*	165
170	36.4	262.8	13,700*	41.3	274.7	14,400*	49.7	290.5	16,000*	170
175	33.7	255.5	13,400*	38.9	268.5	14,100*	47.7	286.0	15,600*	175
180	30.8	247.3	13,200*	36.4	261.8	13,800*	45.6	281.1	15,200*	180
185	27.7	238.0	12,900*	33.7	254.5	13,500*	43.4	275.9	14,800*	185
190	24.1	227.3	12,700*	30.9	246.3	13,200*	41.2	270.2	14,500*	190
195	20.0	214.3	12,500*	27.7	237.0	13,000*	38.8	264.0	14,100*	195
200	14.6	197.3	12,300*	24.1	226.3	12,700*	36.3	257.3	13,800*	200
205	4.9	165.2	12,200*	20.0	213.4	12,500*	33.6	249.9	13,500*	205
210				14.7	196.4	12,400*	30.7	241.6	13,300*	210
215				5.0	164.5	12,300*	27.5	232.3	13,000	215
220							23.9	221.5	12,500	220
225							19.7	208.4	12,000	225
230							14.3	191.1	11,500	230
235							3.5	155.4	11,000	235

14000 S-2

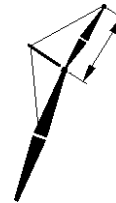
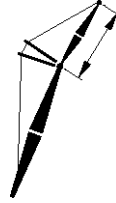
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb

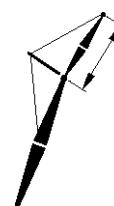
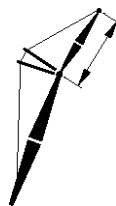
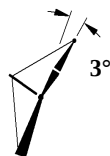
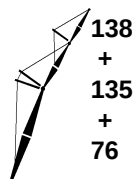


144.4 ft

160 ft

40 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.8	345.1	21,700*							70
75	73.4	343.6	21,400*							75
80	71.9	342.0	21,200*							80
85	70.3	340.2	21,000*							85
90	68.8	338.2	20,800*							90
95	67.3	336.1	20,600*	70.3	339.1	21,000*				95
100	65.7	333.9	20,200*	68.8	337.2	20,800*				100
105	64.1	331.4	19,500*	67.3	335.1	20,600*				105
110	62.5	328.8	18,900*	65.7	332.8	20,300*				110
115	60.9	326.0	18,200*	64.1	330.4	19,600*				115
120	59.2	323.0	17,700*	62.5	327.8	18,900*				120
125	57.5	319.9	17,100*	60.9	325.0	18,300*				125
130	55.8	316.5	16,600*	59.2	322.0	17,700*				130
135	54.0	312.8	16,100*	57.5	318.8	17,200*				135
140	52.2	309.0	15,700*	55.8	315.4	16,700*	62.4	323.5	18,800*	140
145	50.4	304.8	15,300*	54.0	311.8	16,200*	60.8	320.7	18,200*	145
150	48.5	300.4	14,900*	52.2	307.9	15,800*	59.1	317.7	17,700*	150
155	46.5	295.7	14,500*	50.4	303.8	15,300*	57.4	314.5	17,200*	155
160	44.5	290.6	14,200*	48.5	299.4	15,000*	55.7	311.1	16,700*	160
165	42.4	285.2	13,900*	46.5	294.7	14,600*	53.9	307.4	16,200*	165
170	40.2	279.3	13,600*	44.5	289.6	14,200*	52.1	303.5	15,800*	170
175	37.9	272.9	13,300*	42.4	284.2	13,900*	50.3	299.4	15,400*	175
180	35.4	266.0	13,000*	40.2	278.3	13,600*	48.4	295.0	15,000*	180
185	32.8	258.4	12,800*	37.9	271.9	13,300*	46.4	290.2	14,600*	185
190	30.0	249.9	12,500*	35.4	265.0	13,100*	44.4	285.1	14,300*	190
195	27.0	240.4	12,300*	32.8	257.4	12,800*	42.3	279.7	14,000*	195
200	23.5	229.3	12,100*	30.0	248.9	12,600*	40.1	273.8	13,700*	200
205	19.4	216.0	12,000*	27.0	239.4	12,400*	37.7	267.4	13,400*	205
210	14.2	198.5	11,800*	23.5	228.3	12,200*	35.3	260.4	13,100*	210
215	4.7	165.6	11,600*	19.5	215.0	12,000*	32.7	252.8	12,600*	215
220				14.3	197.6	11,900*	29.9	244.2	12,200*	220
225				4.8	164.9	11,800*	26.8	234.6	11,700*	225
230							23.3	223.5	11,200*	230
235							19.2	210.0	10,800*	235
240							13.9	192.2	10,400*	240
245							3.4	155.6	9,900*	245



144.4 ft

170 ft

40 ft

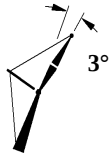
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.2	354.1	20,500*							75
80	72.8	352.5	20,200*							80
85	71.3	350.8	20,000*							85
90	69.9	349.0	19,700*							90
95	68.4	347.0	19,500*							95
100	66.9	344.8	19,300*	69.9	348.0	19,400*				100
105	65.4	342.5	19,000*	68.4	346.0	19,100*				105
110	63.9	340.1	18,400*	66.9	343.8	18,900*				110
115	62.4	337.5	17,800*	65.4	341.5	18,700*				115
120	60.8	334.7	17,300*	63.9	339.1	18,500*				120
125	59.2	331.7	16,800*	62.4	336.5	17,900*				125
130	57.6	328.5	16,300*	60.8	333.6	17,300*				130
135	56.0	325.1	15,800*	59.3	330.7	16,800*				135
140	54.3	321.6	15,400*	57.7	327.5	16,300*				140
145	52.6	317.8	15,000*	56.0	324.1	15,900*	62.3	332.1	17,100*	145
150	50.9	313.7	14,600*	54.3	320.5	15,500*	60.8	329.3	17,000*	150
155	49.1	309.4	14,300*	52.6	316.7	15,100*	59.2	326.4	16,800*	155
160	47.2	304.8	13,900*	50.9	312.7	14,700*	57.5	323.2	16,300*	160
165	45.3	299.8	13,600*	49.1	308.4	14,300*	55.9	319.8	15,900*	165
170	43.3	294.6	13,300*	47.2	303.7	14,000*	54.2	316.2	15,400*	170
175	41.3	288.9	13,100*	45.3	298.8	13,700*	52.5	312.4	15,100*	175
180	39.2	282.8	12,800*	43.4	293.5	13,400*	50.8	308.3	14,700*	180
185	36.9	276.2	12,600*	41.3	287.9	13,100*	49.0	303.9	14,300*	185
190	34.5	269.1	12,300*	39.2	281.8	12,800*	47.1	299.3	14,000*	190
195	32.0	261.2	12,100*	36.9	275.2	12,600*	45.2	294.4	13,700*	195
200	29.3	252.5	11,900*	34.5	268.1	12,400*	43.2	289.1	13,400*	200
205	26.3	242.6	11,700*	32.0	260.2	12,200*	41.2	283.4	13,100*	205
210	22.9	231.3	11,600*	29.3	251.5	12,000*	39.0	277.3	12,900*	210
215	18.9	217.6	11,400*	26.3	241.6	11,800*	36.8	270.7	12,400*	215
220	13.9	199.7	11,300*	22.9	230.3	11,600*	34.4	263.5	11,900*	220
225	4.6	165.9	10,500*	19.0	216.6	11,500*	31.9	255.6	11,400*	225
230				13.9	198.8	11,400*	29.1	246.8	11,000*	230
235				4.7	165.2	11,300*	26.1	236.9	10,600*	235
240							22.7	225.4	10,200*	240
245							18.7	211.6	9,800*	245
250							13.6	193.3	9,400*	250
255							3.2	155.8	9,000*	255

14000 S-2

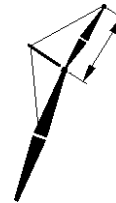
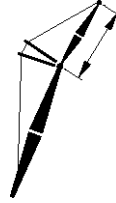
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



144.4 ft

140 ft

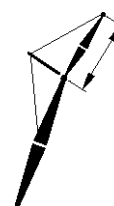
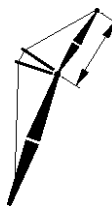
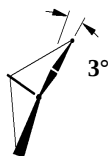
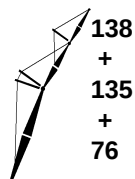
50 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.1	334.7	19,300*							70
75	72.6	333.1	19,000*							75
80	71.0	331.4	18,700*							80
85	69.4	329.5	18,500*							85
90	67.7	327.4	18,300*	71.0	330.3	18,800*				90
95	66.1	325.2	18,000*	69.4	328.4	18,500*				95
100	64.4	322.8	17,800*	67.7	326.4	18,300*				100
105	62.7	320.1	17,600*	66.1	324.1	18,100*				105
110	61.0	317.4	17,100*	64.4	321.7	17,900*				110
115	59.3	314.4	16,500*	62.7	319.1	17,700*				115
120	57.5	311.2	15,900*	61.0	316.4	17,200*				120
125	55.7	307.8	15,400*	59.3	313.4	16,600*				125
130	53.8	304.1	14,900*	57.5	310.2	16,000*				130
135	51.9	300.1	14,500*	55.7	306.7	15,500*	62.7	314.8	17,500*	135
140	49.9	295.9	14,000*	53.8	303.1	15,000*	60.9	312.0	17,200*	140
145	47.9	291.4	13,600*	51.9	299.1	14,500*	59.2	309.0	16,600*	145
150	45.8	286.6	13,200*	50.0	294.9	14,100*	57.4	305.8	16,000*	150
155	43.7	281.3	12,900*	47.9	290.4	13,700*	55.6	302.4	15,500*	155
160	41.4	275.7	12,600*	45.8	285.6	13,300*	53.7	298.7	15,000*	160
165	39.0	269.5	12,300*	43.7	280.3	12,900*	51.8	294.8	14,500*	165
170	36.5	262.9	12,000*	41.4	274.7	12,600*	49.8	290.5	14,100*	170
175	33.8	255.5	11,700*	39.0	268.5	12,300*	47.8	286.0	13,700*	175
180	31.0	247.3	11,400*	36.5	261.9	12,000*	45.7	281.1	13,300*	180
185	27.8	238.0	11,200*	33.8	254.5	11,700*	43.5	275.9	13,000*	185
190	24.2	227.3	11,000*	31.0	246.3	11,500*	41.3	270.2	12,600*	190
195	20.1	214.4	10,800*	27.8	237.0	11,200*	38.9	264.0	12,300*	195
200	14.8	197.4	10,600*	24.2	226.3	11,000*	36.4	257.3	12,000*	200
205	5.0	165.3	10,500*	20.1	213.4	10,800*	33.7	249.9	11,800*	205
210				14.8	196.4	10,700*	30.8	241.6	11,500*	210
215				5.1	164.6	10,600*	27.6	232.3	11,300*	215
220							24.0	221.5	11,100*	220
225							19.8	208.4	10,900*	225
230							14.4	191.1	10,700*	230
235							3.6	155.6	10,600*	235



ANSI B30.5

14000 S-2



144.4 ft

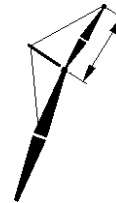
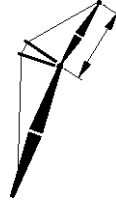
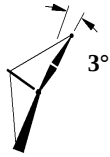
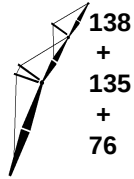
150 ft

50 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.9	345.1	19,000*							70
75	73.4	343.6	18,700*							75
80	71.9	342.0	18,500*							80
85	70.4	340.2	18,300*							85
90	68.9	338.2	18,000*							90
95	67.4	336.1	17,800*	70.4	339.2	18,300*				95
100	65.8	333.9	17,600*	68.9	337.2	18,100*				100
105	64.2	331.4	17,400*	67.4	335.1	17,900*				105
110	62.6	328.8	16,800*	65.8	332.8	17,700*				110
115	61.0	326.0	16,300*	64.2	330.4	17,500*				115
120	59.3	323.0	15,700*	62.6	327.8	16,900*				120
125	57.6	319.9	15,200*	61.0	325.0	16,300*				125
130	55.9	316.5	14,700*	59.3	322.0	15,800*				130
135	54.1	312.8	14,200*	57.6	318.8	15,200*				135
140	52.3	309.0	13,800*	55.9	315.4	14,800*	62.5	323.5	16,900*	140
145	50.5	304.8	13,400*	54.1	311.8	14,300*	60.9	320.7	16,300*	145
150	48.6	300.4	13,100*	52.3	307.9	13,900*	59.2	317.7	15,700*	150
155	46.6	295.7	12,700*	50.5	303.8	13,500*	57.5	314.5	15,200*	155
160	44.6	290.6	12,400*	48.6	299.4	13,100*	55.8	311.1	14,800*	160
165	42.5	285.2	12,100*	46.6	294.7	12,800*	54.0	307.4	14,300*	165
170	40.3	279.3	11,800*	44.6	289.6	12,400*	52.2	303.6	13,900*	170
175	38.0	273.0	11,500*	42.5	284.2	12,100*	50.4	299.4	13,500*	175
180	35.5	266.0	11,300*	40.3	278.3	11,800*	48.5	295.0	13,100*	180
185	32.9	258.4	11,000*	38.0	271.9	11,600*	46.5	290.2	12,800*	185
190	30.1	249.9	10,800*	35.5	265.0	11,300*	44.5	285.2	12,500*	190
195	27.0	240.4	10,600*	32.9	257.4	11,100*	42.4	279.7	12,200*	195
200	23.6	229.3	10,400*	30.1	248.9	10,800*	40.2	273.8	11,900*	200
205	19.5	216.0	10,300*	27.1	239.4	10,600*	37.8	267.4	11,600*	205
210	14.4	198.6	10,100*	23.6	228.3	10,500*	35.4	260.4	11,300*	210
215	4.9	165.7	10,000*	19.6	215.1	10,300*	32.8	252.8	11,100*	215
220				14.4	197.6	10,100*	30.0	244.3	10,900*	220
225				5.0	165.0	10,100*	26.9	234.6	10,700*	225
230							23.4	223.5	10,500*	230
235							19.3	210.0	10,300*	235
240							14.0	192.2	10,200*	240
245							3.5	155.7	10,100*	245

14000 S-2

ANSI B30.5



144.4 ft

160 ft

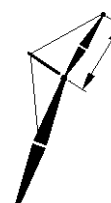
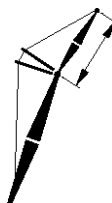
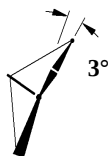
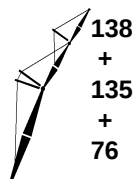
50 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.3	354.1	18,400*							75
80	72.8	352.5	18,100*							80
85	71.4	350.8	17,900*							85
90	70.0	349.0	17,700*							90
95	68.5	347.0	17,500*							95
100	67.0	344.9	17,300*	70.0	348.0	17,600*				100
105	65.5	342.6	17,100*	68.5	346.0	17,400*				105
110	64.0	340.1	16,500*	67.0	343.8	17,100*				110
115	62.5	337.5	16,000*	65.5	341.5	16,900*				115
120	60.9	334.7	15,400*	64.0	339.1	16,600*				120
125	59.3	331.7	14,900*	62.5	336.5	16,000*				125
130	57.7	328.5	14,500*	60.9	333.7	15,500*				130
135	56.1	325.2	14,000*	59.3	330.7	15,000*				135
140	54.4	321.6	13,600*	57.7	327.5	14,500*				140
145	52.7	317.8	13,200*	56.1	324.1	14,100*	62.4	332.1	15,700*	145
150	51.0	313.7	12,900*	54.4	320.5	13,700*	60.8	329.3	15,500*	150
155	49.2	309.4	12,600*	52.7	316.7	13,300*	59.2	326.4	15,000*	155
160	47.3	304.8	12,200*	51.0	312.7	12,900*	57.6	323.2	14,500*	160
165	45.4	299.8	11,900*	49.2	308.4	12,600*	56.0	319.8	14,100*	165
170	43.4	294.6	11,700*	47.3	303.8	12,300*	54.3	316.2	13,700*	170
175	41.4	288.9	11,400*	45.4	298.8	12,000*	52.6	312.4	13,300*	175
180	39.2	282.8	11,100*	43.5	293.6	11,700*	50.9	308.3	13,000*	180
185	37.0	276.2	10,900*	41.4	287.9	11,400*	49.1	304.0	12,600*	185
190	34.6	269.1	10,700*	39.3	281.8	11,200*	47.2	299.3	12,300*	190
195	32.1	261.2	10,500*	37.0	275.2	10,900*	45.3	294.4	12,000*	195
200	29.4	252.5	10,300*	34.6	268.1	10,700*	43.3	289.1	11,700*	200
205	26.4	242.6	10,100*	32.1	260.2	10,500*	41.3	283.4	11,500*	205
210	23.0	231.3	9,900*	29.4	251.5	10,300*	39.1	277.3	11,200*	210
215	19.0	217.6	9,800*	26.4	241.7	10,100*	36.9	270.7	11,000*	215
220	14.0	199.7	9,700*	23.0	230.3	10,000*	34.5	263.5	10,800*	220
225	4.7	166.0	9,600*	19.1	216.7	9,800*	32.0	255.6	10,600*	225
230				14.0	198.8	9,700*	29.2	246.8	10,400*	230
235				4.8	165.3	9,600*	26.2	236.9	10,200*	235
240							22.8	225.4	10,000*	240
245							18.8	211.6	9,900*	245
250							13.7	193.4	9,700*	250
255							3.4	155.9	9,300	255



ANSI B30.5

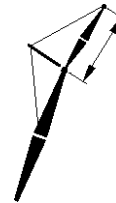
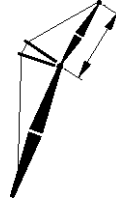
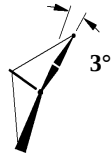
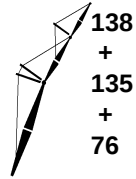
14000 S-2



	144.4 ft			170 ft			50 ft			
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	75.0	364.5	17,400*							75
80	73.6	363.0	17,200*							80
85	72.3	361.4	16,900*							85
90	70.9	359.6	16,700*							90
95	69.5	357.8	16,500*							95
100	68.1	355.7	16,300*	70.9	358.6	16,400*				100
105	66.7	353.6	16,100*	69.5	356.7	16,200*				105
110	65.3	351.2	15,800*	68.1	354.7	16,000*				110
115	63.8	348.8	15,600*	66.7	352.5	15,800*				115
120	62.4	346.1	15,100*	65.3	350.2	15,600*				120
125	60.9	343.3	14,600*	63.8	347.8	15,500*				125
130	59.4	340.4	14,200*	62.4	345.1	15,200*				130
135	57.8	337.2	13,800*	60.9	342.3	14,700*				135
140	56.3	333.9	13,400*	59.4	339.4	14,300*				140
145	54.7	330.3	13,000*	57.8	336.2	13,800*				145
150	53.1	326.5	12,700*	56.3	332.8	13,400*	62.3	340.8	14,500*	150
155	51.4	322.5	12,300*	54.7	329.3	13,100*	60.8	338.0	14,400*	155
160	49.7	318.3	12,000*	53.1	325.5	12,700*	59.3	335.0	14,200*	160
165	48.0	313.8	11,700*	51.4	321.5	12,400*	57.8	331.9	13,800*	165
170	46.2	309.0	11,500*	49.7	317.3	12,100*	56.2	328.5	13,400*	170
175	44.3	303.9	11,200*	48.0	312.8	11,800*	54.6	324.9	13,100*	175
180	42.4	298.4	11,000*	46.2	308.0	11,500*	53.0	321.1	12,700*	180
185	40.4	292.5	10,700*	44.3	302.9	11,200*	51.3	317.1	12,400*	185
190	38.3	286.3	10,500*	42.4	297.4	11,000*	49.6	312.9	12,100*	190
195	36.1	279.5	10,300*	40.4	291.5	10,800*	47.9	308.4	11,800*	195
200	33.8	272.1	10,100*	38.3	285.3	10,500*	46.1	303.5	11,500*	200
205	31.3	264.0	9,900*	36.1	278.5	10,300*	44.2	298.4	11,300*	205
210	28.7	255.0	9,800*	33.8	271.1	10,100*	42.3	292.9	11,000*	210
215	25.7	244.9	9,600*	31.3	263.0	10,000*	40.3	287.0	10,800*	215
220	22.4	233.2	9,500*	28.7	254.0	9,800*	38.2	280.7	10,600*	220
225	18.6	219.2	9,300*	25.8	243.9	9,600*	36.0	273.9	10,400*	225
230	13.6	200.8	9,200*	22.5	232.2	9,500*	33.7	266.5	10,200*	230
235	4.6	166.3	9,200*	18.6	218.2	9,400*	31.2	258.3	10,000*	235
240				13.7	199.9	9,300*	28.5	249.3	9,800*	240
245				4.7	165.6	9,200*	25.6	239.1	9,700*	245
250							22.2	227.4	9,500*	250
255							18.4	213.2	9,200	255
260							13.3	194.5	8,800	260
265							3.3	156.1	8,400	265

14000 S-2

ANSI B30.5

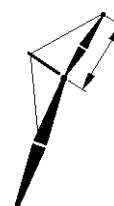
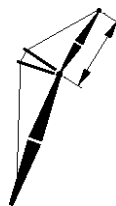
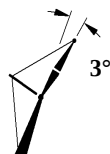
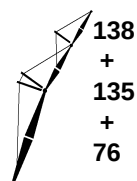


144.4 ft

140 ft

60 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.8	345.2	16,500*							70
75	73.3	343.7	16,200*							75
80	71.8	342.0	15,800*							80
85	70.2	340.2	15,500*							85
90	68.7	338.3	15,200*							90
95	67.2	336.2	14,900*	70.3	339.2	15,400*				95
100	65.6	333.9	14,600*	68.7	337.3	15,100*				100
105	64.0	331.5	14,300*	67.2	335.1	14,800*				105
110	62.4	328.9	14,000*	65.6	332.9	14,500*				110
115	60.8	326.1	13,700*	64.0	330.5	14,200*				115
120	59.1	323.1	13,500*	62.4	327.8	13,900*				120
125	57.4	319.9	13,200*	60.8	325.0	13,700*				125
130	55.7	316.5	12,900*	59.1	322.1	13,400*				130
135	54.0	312.9	12,500*	57.4	318.9	13,200*				135
140	52.1	309.0	12,200*	55.7	315.5	12,900*	62.3	323.5	13,500*	140
145	50.3	304.9	11,800*	54.0	311.9	12,600*	60.7	320.7	13,300*	145
150	48.4	300.5	11,500*	52.2	308.0	12,200*	59.0	317.7	13,100*	150
155	46.4	295.8	11,200*	50.3	303.9	11,900*	57.3	314.5	12,900*	155
160	44.4	290.7	10,900*	48.4	299.5	11,500*	55.6	311.1	12,700*	160
165	42.3	285.2	10,600*	46.4	294.7	11,200*	53.8	307.5	12,500*	165
170	40.1	279.4	10,300*	44.4	289.7	10,900*	52.0	303.6	12,200*	170
175	37.8	273.0	10,100*	42.3	284.2	10,600*	50.2	299.5	11,900*	175
180	35.3	266.1	9,800*	40.1	278.4	10,400*	48.3	295.0	11,600*	180
185	32.8	258.5	9,600*	37.8	272.0	10,100*	46.3	290.3	11,200*	185
190	30.0	250.0	9,400*	35.4	265.1	9,900*	44.3	285.2	11,000*	190
195	26.9	240.5	9,200*	32.8	257.5	9,700*	42.2	279.8	10,700*	195
200	23.4	229.4	9,000*	30.0	249.0	9,400*	40.0	273.9	10,400*	200
205	19.4	216.1	8,800*	26.9	239.5	9,200*	37.7	267.5	10,200*	205
210	14.2	198.8	8,700*	23.4	228.5	9,000*	35.2	260.5	9,900*	210
215	4.8	166.3	8,500*	19.4	215.2	8,900*	32.6	252.9	9,700*	215
220				14.2	197.8	8,700*	29.8	244.4	9,500*	220
225				4.9	165.6	8,600*	26.7	234.7	9,300*	225
230							23.2	223.6	9,100*	230
235							19.1	210.2	8,900*	235
240							13.9	192.4	8,700*	240
245							3.6	156.7	8,600*	245



144.4 ft

150 ft

60 ft

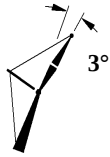
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.1	354.1	15,600*							75
80	72.7	352.6	15,300*							80
85	71.2	350.9	15,000*							85
90	69.8	349.0	14,700*							90
95	68.3	347.0	14,500*							95
100	66.8	344.9	14,200*	69.8	348.0	14,600*				100
105	65.3	342.6	13,900*	68.3	346.0	14,300*				105
110	63.8	340.1	13,700*	66.8	343.9	14,100*				110
115	62.3	337.5	13,400*	65.3	341.6	13,800*				115
120	60.7	334.7	13,200*	63.8	339.1	13,600*				120
125	59.2	331.8	12,900*	62.3	336.5	13,300*				125
130	57.5	328.6	12,700*	60.8	333.7	13,100*				130
135	55.9	325.2	12,400*	59.2	330.7	12,900*				135
140	54.2	321.6	12,100*	57.6	327.6	12,700*				140
145	52.5	317.8	11,700*	55.9	324.2	12,400*	62.2	332.2	12,900*	145
150	50.8	313.8	11,400*	54.2	320.6	12,100*	60.7	329.4	12,800*	150
155	49.0	309.4	11,100*	52.5	316.8	11,800*	59.1	326.4	12,600*	155
160	47.2	304.8	10,800*	50.8	312.7	11,400*	57.5	323.2	12,400*	160
165	45.2	299.9	10,500*	49.0	308.4	11,100*	55.8	319.8	12,200*	165
170	43.3	294.6	10,300*	47.2	303.8	10,900*	54.2	316.2	12,000*	170
175	41.2	289.0	10,000*	45.2	298.9	10,600*	52.4	312.4	11,800*	175
180	39.1	282.9	9,800*	43.3	293.6	10,300*	50.7	308.3	11,500*	180
185	36.8	276.3	9,600*	41.2	288.0	10,100*	48.9	304.0	11,200*	185
190	34.5	269.2	9,400*	39.1	281.9	9,900*	47.0	299.4	10,900*	190
195	31.9	261.3	9,200*	36.8	275.3	9,600*	45.1	294.4	10,600*	195
200	29.2	252.6	9,000*	34.5	268.2	9,400*	43.2	289.2	10,400*	200
205	26.2	242.8	8,800*	31.9	260.3	9,200*	41.1	283.5	10,100*	205
210	22.8	231.4	8,700*	29.2	251.6	9,000*	39.0	277.4	9,900*	210
215	18.9	217.8	8,500*	26.2	241.8	8,900*	36.7	270.8	9,700*	215
220	13.9	199.9	8,400*	22.9	230.4	8,700*	34.3	263.6	9,500*	220
225	4.7	166.6	8,200*	18.9	216.8	8,500*	31.8	255.7	9,300*	225
230				13.9	199.0	8,400*	29.0	246.9	9,100*	230
235				4.8	165.9	8,300*	26.0	237.0	8,900*	235
240							22.6	225.6	8,700*	240
245							18.7	211.8	8,600*	245
250							13.5	193.6	8,400*	250
255							3.5	156.9	8,300*	255

14000 S-2

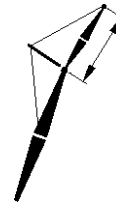
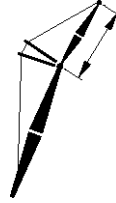
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



144.4 ft

160 ft

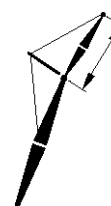
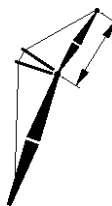
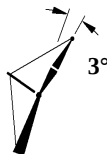
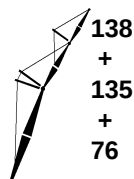
60 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.8	364.5	15,000*							75
80	73.5	363.1	14,700*							80
85	72.1	361.5	14,400*							85
90	70.7	359.7	14,200*							90
95	69.3	357.8	13,900*							95
100	67.9	355.8	13,700*	70.7	358.7	14,000*				100
105	66.5	353.6	13,500*	69.4	356.8	13,800*				105
110	65.1	351.3	13,200*	68.0	354.8	13,600*				110
115	63.7	348.8	13,000*	66.5	352.6	13,300*				115
120	62.2	346.2	12,800*	65.1	350.3	13,100*				120
125	60.7	343.4	12,600*	63.7	347.8	12,900*				125
130	59.2	340.4	12,400*	62.2	345.2	12,700*				130
135	57.7	337.3	12,100*	60.7	342.4	12,500*				135
140	56.1	333.9	12,000*	59.2	339.4	12,300*				140
145	54.5	330.4	11,700*	57.7	336.2	12,100*				145
150	52.9	326.6	11,400*	56.1	332.9	11,900*	62.1	340.9	12,300*	150
155	51.2	322.6	11,100*	54.5	329.3	11,700*	60.6	338.0	12,100*	155
160	49.5	318.4	10,800*	52.9	325.6	11,400*	59.1	335.1	12,000*	160
165	47.8	313.9	10,500*	51.2	321.6	11,100*	57.6	331.9	11,800*	165
170	46.0	309.0	10,300*	49.5	317.3	10,800*	56.0	328.5	11,600*	170
175	44.1	303.9	10,100*	47.8	312.8	10,600*	54.4	325.0	11,500*	175
180	42.2	298.5	9,800*	46.0	308.0	10,300*	52.8	321.2	11,300*	180
185	40.2	292.6	9,600*	44.1	302.9	10,100*	51.1	317.2	11,100*	185
190	38.1	286.3	9,400*	42.2	297.5	9,900*	49.4	312.9	10,900*	190
195	36.0	279.5	9,200*	40.2	291.6	9,600*	47.7	308.4	10,600*	195
200	33.6	272.1	9,000*	38.2	285.3	9,400*	45.9	303.6	10,300*	200
205	31.2	264.0	8,800*	36.0	278.5	9,200*	44.0	298.5	10,100*	205
210	28.5	255.1	8,700*	33.6	271.1	9,000*	42.1	293.0	9,900*	210
215	25.6	245.0	8,500*	31.2	263.1	8,800*	40.1	287.1	9,700*	215
220	22.3	233.3	8,300*	28.5	254.1	8,700*	38.0	280.8	9,400*	220
225	18.4	219.4	8,200*	25.6	244.0	8,500*	35.8	274.0	9,200*	225
230	13.5	201.0	8,100*	22.3	232.4	8,400*	33.5	266.5	9,100*	230
235	4.6	167.0	8,000*	18.5	218.4	8,200*	31.0	258.4	8,900*	235
240				13.6	200.1	8,100*	28.4	249.4	8,700*	240
245				4.7	166.3	8,000*	25.4	239.2	8,500*	245
250							22.1	227.5	8,400*	250
255							18.2	213.3	8,300*	255
260							13.2	194.7	8,200*	260
265							3.4	157.1	8,100*	265



ANSI B30.5

14000 S-2



144.4 ft

170 ft

60 ft

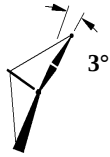
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
80	74.2	373.5	14,000*							80
85	72.9	372.0	13,800*							85
90	71.6	370.3	13,600*							90
95	70.3	368.5	13,400*							95
100	69.0	366.6	13,100*							100
105	67.6	364.5	12,900*	70.3	367.5	13,200*				105
110	66.3	362.3	12,700*	69.0	365.6	13,000*				110
115	64.9	360.0	12,500*	67.6	363.5	12,800*				115
120	63.5	357.5	12,300*	66.3	361.3	12,600*				120
125	62.1	354.9	12,100*	64.9	359.0	12,400*				125
130	60.7	352.0	11,900*	63.5	356.5	12,200*				130
135	59.2	349.1	11,700*	62.1	353.8	12,000*				135
140	57.8	345.9	11,600*	60.7	351.0	11,800*				140
145	56.3	342.6	11,400*	59.2	348.1	11,700*				145
150	54.8	339.1	11,200*	57.8	344.9	11,500*				150
155	53.2	335.4	11,000*	56.3	341.6	11,400*	62.0	349.5	11,600*	155
160	51.6	331.4	10,700*	54.8	338.1	11,200*	60.6	346.7	11,500*	160
165	50.0	327.2	10,400*	53.2	334.4	11,000*	59.2	343.7	11,300*	165
170	48.4	322.8	10,200*	51.6	330.4	10,700*	57.7	340.6	11,200*	170
175	46.7	318.1	9,900*	50.0	326.2	10,500*	56.2	337.2	11,100*	175
180	44.9	313.2	9,700*	48.4	321.8	10,200*	54.7	333.7	10,900*	180
185	43.1	307.9	9,400*	46.7	317.1	9,900*	53.1	330.0	10,800*	185
190	41.2	302.2	9,200*	44.9	312.2	9,700*	51.5	326.0	10,700*	190
195	39.3	296.2	9,000*	43.1	306.9	9,500*	49.9	321.8	10,500*	195
200	37.3	289.7	8,800*	41.2	301.2	9,300*	48.3	317.4	10,200*	200
205	35.1	282.7	8,700*	39.3	295.2	9,100*	46.6	312.7	10,000*	205
210	32.9	275.1	8,500*	37.3	288.7	8,900*	44.8	307.7	9,700*	210
215	30.5	266.7	8,300*	35.1	281.7	8,700*	43.0	302.4	9,500*	215
220	27.9	257.5	8,200*	32.9	274.1	8,500*	41.1	296.7	9,300*	220
225	25.0	247.2	8,100*	30.5	265.8	8,400*	39.2	290.6	9,100*	225
230	21.8	235.2	7,900*	27.9	256.5	8,200*	37.1	284.1	8,900*	230
235	18.0	220.9	7,800*	25.0	246.2	8,100*	35.0	277.1	8,700*	235
240	13.2	202.1	7,700*	21.8	234.2	8,000*	32.7	269.5	8,600*	240
245	4.5	167.3	7,600*	18.0	219.9	7,800*	30.3	261.1	8,400*	245
250				13.2	201.2	7,700*	27.7	251.8	8,200*	250
255				4.6	166.6	7,700*	24.8	241.4	8,100*	255
260							21.6	229.3	8,000*	260
265							17.8	214.8	7,900*	265
270							12.9	195.8	7,800*	270
275							3.3	157.3	7,700*	275

14000 S-2

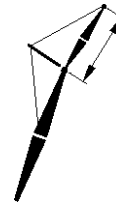
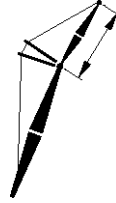
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



164.0 ft

140 ft

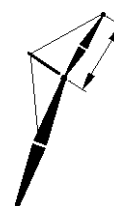
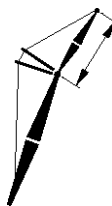
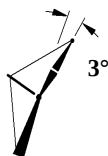
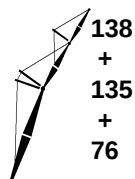
30 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	73.8	335.3	27,000*							65
70	72.0	333.8	26,700*							70
75	70.2	332.0	26,500*							75
80	68.4	330.0	26,200*							80
85	66.6	327.9	26,000*	70.7	331.3	26,600*				85
90	64.8	325.6	25,700*	68.9	329.5	26,300*				90
95	62.9	323.1	25,500*	67.1	327.4	26,100*				95
100	61.0	320.3	25,100*	65.3	325.1	25,900*				100
105	59.0	317.4	24,200*	63.4	322.6	25,700*				105
110	57.0	314.2	23,400*	61.5	320.0	25,500*				110
115	55.0	310.8	22,600*	59.6	317.1	24,600*				115
120	52.9	307.0	21,900*	57.6	314.0	23,800*				120
125	50.8	303.0	21,200*	55.6	310.6	23,000*				125
130	48.6	298.7	20,600*	53.5	307.0	22,200*	62.4	316.6	25,300*	130
135	46.3	294.0	20,000*	51.4	303.0	21,500*	60.5	313.8	24,400	135
140	43.9	288.9	19,500*	49.2	298.8	20,900*	58.6	310.8	23,200	140
145	41.4	283.4	19,000*	46.9	294.2	20,300*	56.6	307.6	22,100	145
150	38.7	277.3	18,500*	44.5	289.2	19,700*	54.5	304.1	21,100	150
155	35.9	270.6	18,100*	42.1	283.8	19,200*	52.4	300.3	20,100	155
160	32.9	263.2	17,700*	39.5	277.9	18,700*	50.2	296.2	19,200	160
165	29.6	254.8	17,300*	36.7	271.4	18,300*	48.0	291.8	18,400	165
170	26.0	245.0	17,000*	33.8	264.2	17,900*	45.7	287.0	17,600	170
175	21.8	233.4	16,600*	30.6	256.1	17,500*	43.3	281.8	16,900	175
180	16.5	218.5	16,400*	27.0	246.8	17,100*	40.8	276.1	16,200	180
185	8.3	194.6	16,200*	23.0	235.8	16,800*	38.1	269.9	15,500	185
190				18.1	222.0	16,500*	35.2	263.1	14,900	190
195				11.2	202.1	16,300*	32.2	255.4	14,300	195
200							28.8	246.7	13,700	200
205							25.0	236.6	13,100	205
210							20.6	224.4	12,600	210
215							14.9	208.2	12,100	215
220							4.2	176.6	11,600	220



ANSI B30.5

14000 S-2



164.0 ft

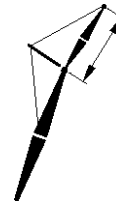
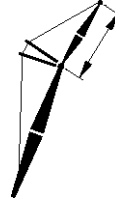
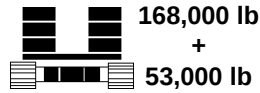
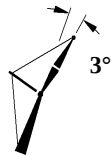
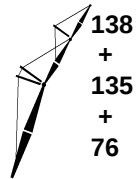
150 ft

30 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	74.7	345.8	26,400*							65
70	73.0	344.3	26,200*							70
75	71.4	342.6	25,900*							75
80	69.7	340.8	25,700*							80
85	68.0	338.8	25,500*							85
90	66.3	336.6	25,200*	70.2	340.2	25,800*				90
95	64.5	334.3	25,000*	68.5	338.2	25,600*				95
100	62.7	331.7	24,700*	66.7	336.1	25,400*				100
105	60.9	329.0	23,800*	65.0	333.8	25,200*				105
110	59.1	326.1	23,000*	63.2	331.3	25,000*				110
115	57.2	322.9	22,300*	61.4	328.6	24,200*				115
120	55.3	319.5	21,600*	59.6	325.7	23,300*				120
125	53.3	315.8	20,900*	57.7	322.6	22,600*				125
130	51.3	311.9	20,300*	55.8	319.3	21,900*				130
135	49.2	307.6	19,800*	53.9	315.7	21,200*	62.3	325.3	24,000*	135
140	47.1	303.1	19,200*	51.9	311.9	20,600*	60.5	322.5	23,100	140
145	44.9	298.2	18,700*	49.8	307.7	20,000*	58.6	319.5	22,000	145
150	42.6	292.8	18,300*	47.7	303.2	19,500*	56.8	316.3	20,900	150
155	40.2	287.0	17,800*	45.5	298.4	19,000*	54.8	312.8	20,000	155
160	37.6	280.7	17,400*	43.2	293.2	18,500*	52.9	309.1	19,100	160
165	34.9	273.8	17,100*	40.8	287.5	18,100*	50.8	305.1	18,300	165
170	32.0	266.0	16,700*	38.3	281.4	17,700*	48.7	300.8	17,500	170
175	28.8	257.3	16,400*	35.7	274.6	17,300*	46.6	296.1	16,700	175
180	25.2	247.3	16,100*	32.8	267.1	16,900*	44.3	291.1	16,000	180
185	21.1	235.3	15,800*	29.7	258.7	16,600*	42.0	285.7	15,400	185
190	16.0	219.9	15,600*	26.3	249.1	16,300*	39.5	279.8	14,700	190
195	8.0	195.2	15,100*	22.3	237.7	16,000*	37.0	273.3	14,100	195
200				17.6	223.5	15,700*	34.2	266.1	13,600	200
205				10.9	203.0	15,600*	31.2	258.2	13,000	205
210							28.0	249.2	12,500	210
215							24.3	238.8	12,000	215
220							20.0	226.1	11,600	220
225							14.5	209.5	11,100	225
230							4.0	176.9	10,600	230

14000 S-2

ANSI B30.5



164.0 ft

160 ft

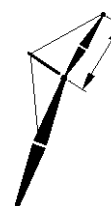
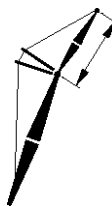
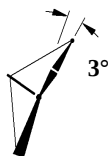
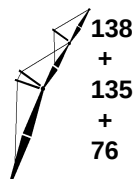
30 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.0	354.7	25,200*							70
75	72.4	353.2	25,100*							75
80	70.8	351.5	24,600*							80
85	69.2	349.6	24,300*							85
90	67.6	347.5	24,100*							90
95	65.9	345.3	23,800*	69.6	349.0	23,800*				95
100	64.3	343.0	23,600*	68.0	347.0	23,600*				100
105	62.6	340.4	23,300*	66.4	344.8	23,400*				105
110	60.9	337.7	22,600*	64.7	342.5	23,200*				110
115	59.1	334.7	21,900*	63.1	340.0	23,000*				115
120	57.4	331.6	21,200*	61.4	337.3	22,900*				120
125	55.5	328.2	20,600*	59.6	334.4	22,200*				125
130	53.7	324.6	20,000*	57.9	331.3	21,500*				130
135	51.8	320.7	19,500*	56.1	328.0	20,900*				135
140	49.8	316.5	19,000*	54.2	324.4	20,300*	62.2	333.9	21,100*	140
145	47.8	312.1	18,500*	52.3	320.6	19,700*	60.5	331.1	21,100*	145
150	45.8	307.3	18,100*	50.4	316.6	19,200*	58.7	328.1	20,600	150
155	43.6	302.2	17,600*	48.4	312.2	18,700*	56.9	324.9	19,600	155
160	41.4	296.6	17,300*	46.4	307.5	18,300*	55.1	321.5	18,700	160
165	39.0	290.6	16,900*	44.2	302.5	17,900*	53.2	317.8	17,900	165
170	36.5	284.0	16,600*	42.0	297.0	17,500*	51.3	313.9	17,100	170
175	33.9	276.8	16,200*	39.7	291.2	17,100*	49.4	309.7	16,400	175
180	31.1	268.8	16,000*	37.2	284.8	16,700*	47.3	305.1	15,700	180
185	28.0	259.8	15,700*	34.7	277.7	16,400*	45.3	300.3	15,000	185
190	24.5	249.4	15,400*	31.9	270.0	16,100*	43.1	295.0	14,400	190
195	20.5	237.1	15,200*	28.9	261.3	15,800*	40.8	289.4	13,800	195
200	15.6	221.2	15,000*	25.5	251.3	15,600*	38.4	283.2	13,200	200
205	7.8	195.9	13,700*	21.7	239.6	15,300*	35.9	276.5	12,700	205
210				17.1	225.0	15,100*	33.2	269.1	12,200	210
215				10.6	203.9	14,800	30.4	260.9	11,700	215
220							27.2	251.6	11,200	220
225							23.6	240.8	10,800	225
230							19.5	227.8	10,400	230
235							14.1	210.7	9,900	235
240							3.9	177.2	9,500	240



ANSI B30.5

14000 S-2



164.0 ft

170 ft

30 ft

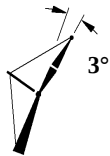
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.8	365.1	22,500*							70
75	73.3	363.7	22,500*							75
80	71.8	362.0	22,200*							80
85	70.3	360.3	21,800*							85
90	68.8	358.4	21,600*							90
95	67.2	356.3	21,300*	70.7	359.6	21,300*				95
100	65.7	354.0	21,100*	69.2	357.8	21,100*				100
105	64.1	351.6	20,800*	67.6	355.7	20,900*				105
110	62.5	349.1	20,600*	66.1	353.5	20,700*				110
115	60.8	346.3	20,400*	64.5	351.2	20,500*				115
120	59.2	343.4	20,200*	62.9	348.7	20,300*				120
125	57.5	340.2	20,000*	61.3	346.0	20,100*				125
130	55.8	336.9	19,600*	59.6	343.1	19,900*				130
135	54.0	333.3	19,100*	58.0	340.0	19,800*				135
140	52.2	329.5	18,600*	56.3	336.7	19,600*				140
145	50.4	325.4	18,200*	54.5	333.2	19,300*	62.1	342.6	18,600*	145
150	48.5	321.1	17,700*	52.7	329.4	18,800*	60.4	339.8	18,500*	150
155	46.6	316.4	17,300*	50.9	325.4	18,400*	58.8	336.8	18,500*	155
160	44.5	311.4	17,000*	49.0	321.1	17,900*	57.1	333.6	18,400*	160
165	42.5	306.1	16,600*	47.1	316.6	17,500*	55.4	330.2	17,600*	165
170	40.3	300.3	16,300*	45.1	311.7	17,200*	53.6	326.6	16,800*	170
175	38.0	294.0	16,000*	43.0	306.4	16,800*	51.8	322.7	16,100*	175
180	35.6	287.2	15,700*	40.9	300.8	16,500*	50.0	318.6	15,400*	180
185	33.0	279.8	15,400*	38.6	294.7	16,200*	48.0	314.1	14,700*	185
190	30.3	271.5	15,200*	36.3	288.0	15,900*	46.1	309.4	14,100*	190
195	27.3	262.2	15,000*	33.8	280.8	15,600*	44.0	304.3	13,500*	195
200	23.9	251.5	14,800*	31.1	272.7	15,300*	41.9	298.9	13,000*	200
205	20.0	238.8	14,600*	28.1	263.8	15,100*	39.7	293.0	12,400*	205
210	15.1	222.5	14,400*	24.9	253.5	14,900*	37.4	286.6	11,900*	210
215	7.6	196.5	12,400*	21.1	241.4	14,600*	35.0	279.7	11,500*	215
220				16.6	226.4	14,100*	32.4	272.0	11,000*	220
225				10.3	204.7	13,500*	29.6	263.5	10,600*	225
230							26.5	253.9	10,100*	230
235							23.0	242.9	9,700*	235
240							18.9	229.5	9,300*	240
245							13.7	211.9	8,900*	245
250							3.8	177.5	8,500*	250

14000 S-2

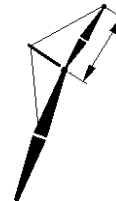
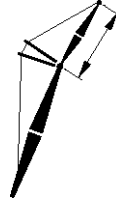
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



164.0 ft

140 ft

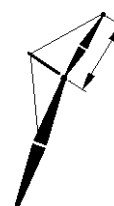
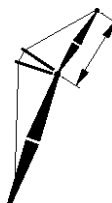
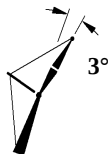
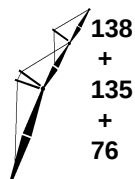
40 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	73.5	344.2	22,300*							70
75	71.8	342.5	22,100*							75
80	70.1	340.7	21,800*							80
85	68.4	338.7	21,600*							85
90	66.7	336.6	21,300*							90
95	64.9	334.2	21,100*	70.6	340.1	21,900*				95
100	63.2	331.7	20,900*	68.9	338.2	21,700*				100
105	61.3	329.0	20,300*	67.2	336.0	21,500*				105
110	59.5	326.0	19,600*	65.4	333.8	21,300*				110
115	57.6	322.8	18,900*	63.7	331.3	21,100*				115
120	55.7	319.4	18,300*	61.8	328.6	20,700*				120
125	53.8	315.8	17,700*	60.0	325.7	19,900*				125
130	51.7	311.8	17,200*	58.2	322.6	19,200*				130
135	49.7	307.6	16,700*	56.2	319.2	18,600*				135
140	47.5	303.0	16,200*	54.3	315.6	18,000*	62.7	325.2	20,700*	140
145	45.3	298.1	15,800*	52.3	311.8	17,400*	60.9	322.4	20,300*	145
150	43.0	292.8	15,400*	50.2	307.6	16,900*	59.1	319.4	19,600*	150
155	40.5	287.0	15,000*	48.1	303.2	16,400*	57.2	316.2	18,900*	155
160	38.0	280.6	14,600*	45.9	298.3	16,000*	55.2	312.7	18,300*	160
165	35.3	273.7	14,300*	43.6	293.1	15,500*	53.3	309.0	17,800*	165
170	32.4	265.9	14,000*	41.2	287.5	15,100*	51.2	305.0	17,200*	170
175	29.2	257.2	13,700*	38.7	281.3	14,800*	49.2	300.7	16,700*	175
180	25.6	247.1	13,400*	36.1	274.5	14,400*	47.0	296.0	16,300*	180
185	21.5	235.1	13,200*	33.2	267.0	14,100*	44.7	291.0	15,800*	185
190	16.4	219.7	13,000*	30.1	258.6	13,800*	42.4	285.6	15,400*	190
195	8.3	194.8	12,800*	26.7	248.9	13,500*	40.0	279.7	15,000	195
200				22.7	237.6	13,300*	37.4	273.2	14,400	200
205				17.9	223.3	13,100*	34.6	266.1	13,800	205
210				11.2	202.7	12,900*	31.6	258.1	13,300	210
215							28.4	249.1	12,800	215
220							24.7	238.6	12,300	220
225							20.4	226.0	11,800	225
230							14.9	209.3	11,300	225
							4.2	176.0	10,800	230



ANSI B30.5

14000 S-2



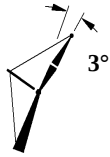
	164.0 ft			150 ft			40 ft			
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.3	354.7	21,900*							70
75	72.8	353.1	21,700*							75
80	71.2	351.4	21,400*							80
85	69.6	349.5	21,200*							85
90	68.0	347.5	21,000*							90
95	66.3	345.3	20,800*	70.0	348.9	21,300*				95
100	64.7	342.9	20,600*	68.4	346.9	21,100*				100
105	63.0	340.4	20,000*	66.8	344.8	20,900*				105
110	61.3	337.6	19,300*	65.1	342.4	20,700*				110
115	59.5	334.7	18,600*	63.5	339.9	20,300*				115
120	57.8	331.5	18,000*	61.8	337.2	19,600*				120
125	56.0	328.1	17,500*	60.0	334.4	18,900*				125
130	54.1	324.5	16,900*	58.2	331.2	18,300*				130
135	52.2	320.6	16,400*	56.5	327.9	17,700*				135
140	50.2	316.5	16,000*	54.6	324.4	17,200*	62.6	333.9	19,900*	140
145	48.2	312.0	15,500*	52.7	320.6	16,700*	60.9	331.1	19,200*	145
150	46.2	307.2	15,100*	50.8	316.5	16,200*	59.1	328.1	18,600*	150
155	44.0	302.1	14,800*	48.8	312.1	15,700*	57.3	324.9	18,000*	155
160	41.8	296.5	14,400*	46.7	307.5	15,300*	55.5	321.4	17,500*	160
165	39.4	290.5	14,100*	44.6	302.4	14,900*	53.6	317.8	17,000*	165
170	36.9	283.9	13,800*	42.4	297.0	14,600*	51.7	313.8	16,500*	170
175	34.3	276.7	13,500*	40.1	291.1	14,200*	49.8	309.6	16,000*	175
180	31.5	268.7	13,200*	37.6	284.7	13,900*	47.7	305.1	15,600*	180
185	28.4	259.7	13,000*	35.0	277.6	13,600*	45.7	300.2	15,200*	185
190	24.9	249.3	12,700*	32.3	269.9	13,300*	43.5	295.0	14,800*	190
195	20.9	236.9	12,500*	29.3	261.1	13,100*	41.2	289.3	14,300	195
200	15.9	221.0	12,400*	25.9	251.2	12,800*	38.8	283.1	13,700	200
205	8.1	195.5	12,200*	22.1	239.5	12,600*	36.3	276.4	13,200	205
210				17.4	224.8	12,400*	33.6	269.0	12,700	210
215				10.9	203.6	12,300*	30.7	260.8	12,200	215
220							27.6	251.5	11,700	220
225							24.0	240.7	11,300	225
230							19.8	227.7	10,800	230
235							14.4	210.5	10,400	235
240							4.1	176.3	9,900	240

14000 S-2

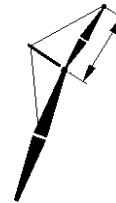
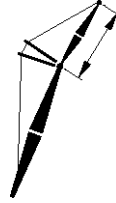
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



164.0 ft

160 ft

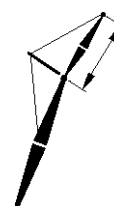
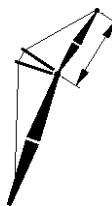
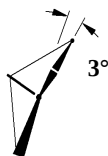
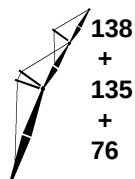
40 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	73.7	363.6	21,200*							75
80	72.2	362.0	20,900*							80
85	70.7	360.2	20,700*							85
90	69.1	358.3	20,500*							90
95	67.6	356.2	20,300*							95
100	66.0	354.0	20,200*	69.6	357.7	20,600*				100
105	64.4	351.6	19,600*	68.0	355.7	20,400*				105
110	62.8	349.0	18,900*	66.5	353.5	20,300*				110
115	61.2	346.3	18,300*	64.9	351.1	19,800*				115
120	59.6	343.3	17,700*	63.3	348.6	19,200*				120
125	57.9	340.2	17,200*	61.7	345.9	18,500*				125
130	56.2	336.8	16,700*	60.0	343.0	18,000*				130
135	54.4	333.2	16,200*	58.3	339.9	17,400*				135
140	52.6	329.4	15,800*	56.6	336.6	16,900*				140
145	50.8	325.4	15,300*	54.9	333.1	16,400*	62.5	342.5	18,500*	145
150	48.9	321.0	14,900*	53.1	329.4	16,000*	60.8	339.8	18,200*	150
155	46.9	316.3	14,600*	51.3	325.4	15,500*	59.2	336.8	17,600*	155
160	44.9	311.4	14,200*	49.4	321.1	15,100*	57.5	333.6	17,100*	160
165	42.8	306.0	13,900*	47.5	316.5	14,700*	55.7	330.2	16,700*	165
170	40.6	300.2	13,600*	45.5	311.6	14,400*	54.0	326.5	16,200*	170
175	38.4	294.0	13,300*	43.4	306.4	14,100*	52.2	322.6	15,800*	175
180	36.0	287.1	13,100*	41.3	300.7	13,800*	50.3	318.5	15,400*	180
185	33.4	279.7	12,800*	39.0	294.6	13,500*	48.4	314.1	15,000*	185
190	30.6	271.4	12,600*	36.6	287.9	13,200*	46.5	309.3	14,500	190
195	27.6	262.1	12,400*	34.1	280.7	12,900*	44.4	304.3	13,900	195
200	24.2	251.4	12,200*	31.4	272.6	12,700*	42.3	298.8	13,400	200
205	20.3	238.6	12,000*	28.5	263.6	12,500*	40.1	292.9	12,800	205
210	15.5	222.3	11,800*	25.2	253.4	12,300*	37.8	286.5	12,300	210
215	7.8	196.1	11,700*	21.5	241.3	12,100*	35.3	279.6	11,800	215
220				17.0	226.2	11,900*	32.7	271.9	11,400	220
225				10.6	204.4	11,800*	29.9	263.4	10,900	225
230							26.8	253.8	10,500	230
235							23.4	242.7	10,100	235
240							19.3	229.3	9,700	240
245							14.0	211.6	9,300	245
250							3.9	176.5	8,900	250



ANSI B30.5

14000 S-2



164.0 ft

170 ft

40 ft

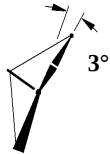
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.5	374.0	19,800*							75
80	73.0	372.5	19,600*							80
85	71.6	370.8	19,400*							85
90	70.2	369.0	19,100*							90
95	68.7	367.1	18,900*							95
100	67.2	365.0	18,700*	70.6	368.4	18,700*				100
105	65.7	362.7	18,500*	69.1	366.5	18,500*				105
110	64.2	360.3	18,300*	67.7	364.4	18,400*				110
115	62.7	357.7	17,900*	66.2	362.2	18,200*				115
120	61.2	354.9	17,300*	64.7	359.8	18,000*				120
125	59.6	352.0	16,800*	63.1	357.3	17,800*				125
130	58.0	348.9	16,300*	61.6	354.6	17,500*				130
135	56.3	345.5	15,900*	60.0	351.7	17,000*				135
140	54.7	342.0	15,400*	58.4	348.6	16,500*				140
145	53.0	338.2	15,000*	56.8	345.3	16,100*				145
150	51.2	334.2	14,700*	55.1	341.8	15,600*	62.3	351.2	16,500*	150
155	49.5	329.9	14,300*	53.5	338.1	15,200*	60.8	348.4	16,400*	155
160	47.6	325.4	14,000*	51.7	334.2	14,800*	59.2	345.4	16,400*	160
165	45.7	320.5	13,700*	50.0	330.0	14,500*	57.6	342.2	16,300*	165
170	43.8	315.3	13,400*	48.1	325.5	14,100*	55.9	338.9	15,800*	170
175	41.7	309.8	13,100*	46.2	320.8	13,800*	54.3	335.3	15,400*	175
180	39.6	303.8	12,800*	44.3	315.7	13,500*	52.6	331.4	15,000*	180
185	37.4	297.3	12,600*	42.3	310.2	13,200*	50.8	327.4	14,700*	185
190	35.0	290.2	12,400*	40.2	304.3	13,000*	49.0	323.0	14,200	190
195	32.5	282.5	12,100*	38.0	298.0	12,700*	47.2	318.4	13,600	195
200	29.9	274.0	11,900*	35.7	291.1	12,500*	45.2	313.5	13,100	200
205	26.9	264.4	11,800*	33.2	283.6	12,300*	43.3	308.2	12,600	205
210	23.6	253.4	11,600*	30.6	275.3	12,000*	41.2	302.5	12,100	210
215	19.8	240.3	11,400*	27.8	266.1	11,900*	39.1	296.4	11,600	215
220	15.1	223.6	11,300*	24.6	255.5	11,700*	36.8	289.8	11,100	220
225	7.6	196.7	11,200*	21.0	243.1	11,500*	34.5	282.6	10,700	225
230				16.5	227.6	11,400*	31.9	274.7	10,300	230
235				10.3	205.2	11,300*	29.2	266.0	9,900	235
240							26.2	256.1	9,500	240
245							22.8	244.7	9,100	245
250							18.8	230.9	8,700	250
255							13.7	212.8	8,400	255
260							3.8	176.8	8,000	260

14000 S-2

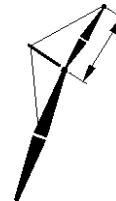
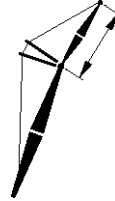
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



164.0 ft

140 ft

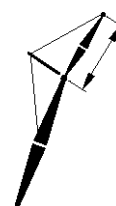
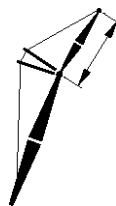
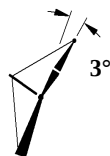
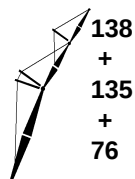
50 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.4	354.7	19,100*							70
75	72.9	353.1	18,800*							75
80	71.3	351.4	18,600*							80
85	69.7	349.5	18,300*							85
90	68.1	347.5	18,100*							90
95	66.4	345.3	17,900*	70.1	348.9	18,400*				95
100	64.8	342.9	17,700*	68.5	346.9	18,200*				100
105	63.1	340.4	17,500*	66.9	344.8	18,000*				105
110	61.4	337.6	17,200*	65.2	342.4	17,800*				110
115	59.6	334.7	16,600*	63.6	339.9	17,600*				115
120	57.9	331.5	16,000*	61.8	337.2	17,400*				120
125	56.0	328.1	15,500*	60.1	334.4	16,900*				125
130	54.2	324.5	15,000*	58.4	331.3	16,300*				130
135	52.3	320.6	14,500*	56.6	327.9	15,700*				135
140	50.3	316.5	14,100*	54.7	324.4	15,200*	62.7	333.9	17,300*	140
145	48.3	312.0	13,700*	52.8	320.6	14,700*	61.0	331.1	17,200*	145
150	46.3	307.2	13,300*	50.9	316.5	14,300*	59.2	328.1	16,600*	150
155	44.1	302.1	13,000*	48.9	312.1	13,900*	57.4	324.9	16,000*	155
160	41.9	296.5	12,600*	46.8	307.5	13,500*	55.6	321.5	15,500*	160
165	39.5	290.5	12,300*	44.7	302.4	13,100*	53.7	317.8	15,000*	165
170	37.0	284.0	12,000*	42.5	297.0	12,800*	51.8	313.8	14,600*	170
175	34.4	276.7	11,700*	40.2	291.1	12,500*	49.9	309.6	14,100*	175
180	31.6	268.7	11,500*	37.7	284.7	12,200*	47.8	305.1	13,700*	180
185	28.5	259.7	11,300*	35.2	277.6	11,900*	45.8	300.2	13,400*	185
190	25.0	249.3	11,000*	32.4	269.9	11,600*	43.6	295.0	13,000*	190
195	21.0	236.9	10,800*	29.4	261.2	11,400*	41.3	289.3	12,700*	195
200	16.0	221.1	10,700*	26.0	251.2	11,100*	38.9	283.2	12,400*	200
205	8.2	195.5	10,500*	22.2	239.5	10,900*	36.4	276.5	12,100*	205
210				17.5	224.8	10,700*	33.7	269.0	11,800*	210
215				11.0	203.6	10,600*	30.8	260.8	11,500*	215
220							27.7	251.5	11,300*	220
225							24.1	240.7	11,100*	225
230							19.9	227.7	10,900*	230
235							14.5	210.5	10,600	235
240							4.2	176.4	10,200	240



ANSI B30.5

14000 S-2



164.0 ft

150 ft

50 ft

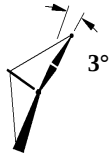
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	73.8	363.6	18,500*							75
80	72.3	362.0	18,300*							80
85	70.8	360.2	18,100*							85
90	69.2	358.3	17,900*							90
95	67.7	356.2	17,700*							95
100	66.1	354.0	17,400*	69.7	357.7	17,900*				100
105	64.5	351.6	17,300*	68.1	355.7	17,800*				105
110	62.9	349.0	16,900*	66.6	353.5	17,600*				110
115	61.3	346.3	16,300*	65.0	351.1	17,400*				115
120	59.7	343.3	15,800*	63.4	348.6	17,200*				120
125	58.0	340.2	15,300*	61.8	345.9	16,600*				125
130	56.2	336.8	14,800*	60.1	343.0	16,000*				130
135	54.5	333.2	14,300*	58.4	339.9	15,500*				135
140	52.7	329.4	13,900*	56.7	336.6	15,000*				140
145	50.9	325.4	13,500*	55.0	333.1	14,500*	62.5	342.5	16,500*	145
150	49.0	321.0	13,100*	53.2	329.4	14,100*	60.9	339.8	16,300*	150
155	47.0	316.4	12,800*	51.4	325.4	13,700*	59.2	336.8	15,700*	155
160	45.0	311.4	12,500*	49.5	321.1	13,300*	57.6	333.6	15,200*	160
165	42.9	306.0	12,100*	47.6	316.5	12,900*	55.8	330.2	14,800*	165
170	40.7	300.2	11,900*	45.6	311.6	12,600*	54.1	326.5	14,300*	170
175	38.5	294.0	11,600*	43.5	306.4	12,300*	52.3	322.6	13,900*	175
180	36.0	287.1	11,300*	41.3	300.7	12,000*	50.4	318.5	13,500*	180
185	33.5	279.7	11,100*	39.1	294.6	11,700*	48.5	314.1	13,200*	185
190	30.7	271.4	10,900*	36.7	288.0	11,400*	46.5	309.4	12,800*	190
195	27.7	262.1	10,600*	34.2	280.7	11,200*	44.5	304.3	12,500*	195
200	24.3	251.4	10,500*	31.5	272.6	11,000*	42.4	298.8	12,200*	200
205	20.4	238.7	10,300*	28.6	263.7	10,700*	40.2	292.9	11,900*	205
210	15.6	222.4	10,100*	25.3	253.4	10,600*	37.9	286.5	11,600*	210
215	8.0	196.1	10,000*	21.6	241.3	10,400*	35.4	279.6	11,400*	215
220				17.1	226.3	10,200*	32.8	271.9	11,100*	220
225				10.7	204.5	10,100*	30.0	263.4	10,900*	225
230							26.9	253.8	10,700*	230
235							23.5	242.7	10,500*	235
240							19.4	229.3	10,100	240
245							14.1	211.7	9,700	245
250							4.1	176.7	9,300	250

14000 S-2

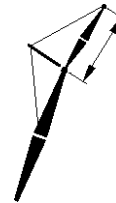
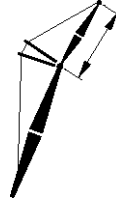
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb

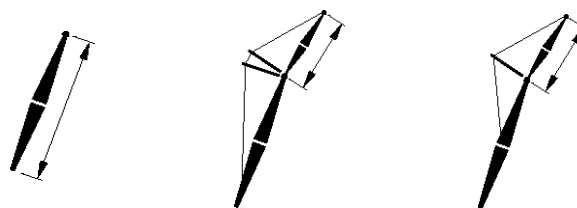
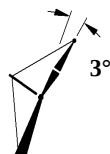
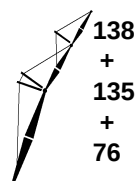


164.0 ft

160 ft

50 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.6	374.0	18,100*							75
80	73.1	372.5	17,900*							80
85	71.7	370.8	17,700*							85
90	70.3	369.0	17,500*							90
95	68.8	367.1	17,300*							95
100	67.3	365.0	17,000*	70.7	368.4	17,200*				100
105	65.8	362.7	16,800*	69.2	366.5	17,000*				105
110	64.3	360.3	16,600*	67.7	364.4	16,800*				110
115	62.8	357.7	16,000*	66.2	362.2	16,600*				115
120	61.2	354.9	15,500*	64.8	359.8	16,400*				120
125	59.7	352.0	15,000*	63.2	357.3	16,200*				125
130	58.1	348.9	14,500*	61.7	354.6	15,700*				130
135	56.4	345.5	14,100*	60.1	351.7	15,200*				135
140	54.8	342.0	13,700*	58.5	348.6	14,700*				140
145	53.1	338.2	13,300*	56.9	345.3	14,300*				145
150	51.3	334.2	12,900*	55.2	341.8	13,900*	62.4	351.2	15,300*	150
155	49.5	329.9	12,600*	53.5	338.1	13,500*	60.9	348.4	15,200*	155
160	47.7	325.4	12,300*	51.8	334.2	13,100*	59.3	345.4	15,000*	160
165	45.8	320.5	12,000*	50.0	330.0	12,800*	57.7	342.2	14,500*	165
170	43.8	315.3	11,700*	48.2	325.5	12,400*	56.0	338.9	14,100*	170
175	41.8	309.8	11,400*	46.3	320.8	12,100*	54.4	335.3	13,700*	175
180	39.7	303.8	11,200*	44.4	315.7	11,800*	52.7	331.5	13,300*	180
185	37.5	297.3	11,000*	42.4	310.2	11,600*	50.9	327.4	13,000*	185
190	35.1	290.3	10,700*	40.3	304.3	11,300*	49.1	323.0	12,600*	190
195	32.6	282.5	10,500*	38.1	298.0	11,100*	47.2	318.4	12,300*	195
200	30.0	274.0	10,300*	35.8	291.1	10,800*	45.3	313.5	12,000*	200
205	27.0	264.4	10,100*	33.3	283.6	10,600*	43.4	308.2	11,700*	205
210	23.7	253.4	10,000*	30.7	275.3	10,400*	41.3	302.5	11,500*	210
215	19.9	240.4	9,800*	27.9	266.1	10,200*	39.2	296.4	11,200*	215
220	15.2	223.6	9,700*	24.7	255.5	10,100*	36.9	289.8	11,000*	220
225	7.7	196.7	9,600*	21.0	243.1	9,900*	34.5	282.6	10,800*	225
230				16.6	227.7	9,800*	32.0	274.8	10,600*	230
235				10.4	205.3	9,700*	29.3	266.0	10,200	235
240							26.3	256.1	9,800	240
245							22.9	244.7	9,400	245
250							18.9	230.9	9,100	250
255							13.8	212.8	8,700	255
260							3.9	176.9	8,300	260



164.0 ft

170 ft

50 ft

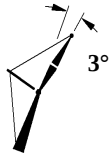
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
80	73.9	383.0	16,700*							80
85	72.6	381.4	16,500*							85
90	71.2	379.7	16,300*							90
95	69.8	377.8	16,100*							95
100	68.4	375.8	15,900*							100
105	67.0	373.7	15,700*	70.2	377.2	15,900*				105
110	65.6	371.4	15,500*	68.8	375.2	15,700*				110
115	64.1	369.0	15,300*	67.4	373.1	15,500*				115
120	62.7	366.4	15,100*	66.0	370.9	15,300*				120
125	61.2	363.6	14,700*	64.5	368.5	15,200*				125
130	59.7	360.6	14,200*	63.1	365.9	15,000*				130
135	58.2	357.5	13,800*	61.6	363.2	14,800*				135
140	56.6	354.2	13,400*	60.1	360.3	14,400*				140
145	55.0	350.7	13,100*	58.6	357.3	14,000*				145
150	53.4	347.0	12,700*	57.0	354.0	13,600*				150
155	51.7	343.0	12,400*	55.5	350.6	13,200*	62.3	359.9	14,100*	155
160	50.0	338.9	12,100*	53.8	346.9	12,900*	60.8	357.1	14,000*	160
165	48.3	334.4	11,800*	52.2	343.0	12,500*	59.3	354.1	13,900*	165
170	46.5	329.7	11,500*	50.5	338.9	12,200*	57.8	350.9	13,800*	170
175	44.7	324.6	11,200*	48.8	334.5	11,900*	56.2	347.6	13,400*	175
180	42.8	319.2	11,000*	47.0	329.9	11,600*	54.6	344.0	13,000*	180
185	40.8	313.5	10,800*	45.2	324.9	11,400*	53.0	340.2	12,700*	185
190	38.7	307.2	10,500*	43.3	319.6	11,100*	51.3	336.2	12,400*	190
195	36.6	300.6	10,300*	41.4	314.0	10,900*	49.6	332.0	12,100*	195
200	34.3	293.3	10,100*	39.3	307.9	10,600*	47.9	327.5	11,800*	200
205	31.9	285.4	10,000*	37.2	301.3	10,400*	46.1	322.6	11,500*	205
210	29.2	276.6	9,800*	34.9	294.2	10,200*	44.2	317.5	11,300*	210
215	26.4	266.7	9,600*	32.5	286.5	10,000*	42.3	312.0	11,000*	215
220	23.2	255.4	9,500*	30.0	278.0	9,900*	40.3	306.2	10,800*	220
225	19.4	242.0	9,400*	27.2	268.4	9,700*	38.2	299.9	10,600*	225
230	14.8	224.8	9,200*	24.1	257.6	9,600*	36.0	293.0	10,400	230
235	7.5	197.3	9,200*	20.5	244.9	9,400*	33.7	285.6	10,000	235
240				16.2	229.0	9,300*	31.2	277.5	9,600	240
245				10.1	206.1	9,200*	28.6	268.5	9,200	245
250							25.6	258.3	8,800	250
255							22.3	246.6	8,500	255
260							18.4	232.5	8,200	260
265							13.4	213.9	7,800	265
270							3.8	177.2	7,500	270

14000 S-2

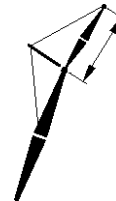
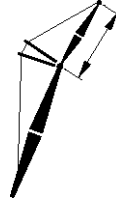
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



164.0 ft

140 ft

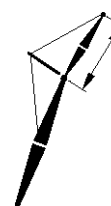
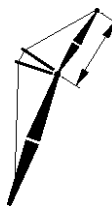
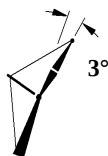
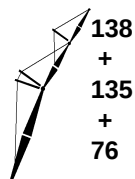
60 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	73.6	363.6	16,000*							75
80	72.1	362.0	15,700*							80
85	70.6	360.3	15,400*							85
90	69.0	358.4	15,100*							90
95	67.5	356.3	14,700*	71.0	359.6	15,300*				95
100	65.9	354.0	14,500*	69.5	357.8	15,000*				100
105	64.3	351.6	14,200*	67.9	355.7	14,700*				105
110	62.8	349.1	13,900*	66.4	353.5	14,400*				110
115	61.1	346.3	13,600*	64.8	351.2	14,100*				115
120	59.5	343.4	13,400*	63.2	348.7	13,900*				120
125	57.8	340.2	13,100*	61.6	346.0	13,600*				125
130	56.1	336.9	12,900*	59.9	343.1	13,400*				130
135	54.3	333.3	12,600*	58.2	340.0	13,100*				135
140	52.5	329.5	12,200*	56.5	336.7	12,900*				140
145	50.7	325.4	11,900*	54.8	333.2	12,700*	62.4	342.6	13,300*	145
150	48.8	321.1	11,500*	53.0	329.4	12,400*	60.7	339.8	13,100*	150
155	46.8	316.4	11,200*	51.2	325.4	12,000*	59.1	336.8	12,900*	155
160	44.8	311.4	10,900*	49.3	321.1	11,700*	57.4	333.6	12,700*	160
165	42.7	306.1	10,600*	47.4	316.6	11,400*	55.7	330.2	12,600*	165
170	40.6	300.3	10,400*	45.4	311.7	11,100*	53.9	326.6	12,400*	170
175	38.3	294.0	10,100*	43.3	306.4	10,800*	52.1	322.7	12,200*	175
180	35.9	287.2	9,900*	41.2	300.8	10,500*	50.2	318.6	11,900*	180
185	33.3	279.8	9,700*	38.9	294.7	10,200*	48.3	314.1	11,600*	185
190	30.5	271.5	9,400*	36.5	288.0	10,000*	46.4	309.4	11,300*	190
195	27.5	262.2	9,200*	34.0	280.8	9,800*	44.3	304.3	11,000*	195
200	24.2	251.5	9,000*	31.3	272.7	9,500*	42.2	298.9	10,700*	200
205	20.3	238.8	8,900*	28.4	263.8	9,300*	40.0	293.0	10,400*	205
210	15.4	222.5	8,700*	25.2	253.5	9,100*	37.7	286.6	10,200*	210
215	7.9	196.5	8,500*	21.4	241.4	8,900*	35.3	279.7	9,900*	215
220				16.9	226.4	8,800*	32.7	272.0	9,700*	220
225				10.6	204.7	8,600*	29.9	263.5	9,500*	225
230							26.8	253.9	9,300*	230
235							23.3	242.9	9,100*	235
240							19.2	229.5	8,900*	240
245							14.0	211.9	8,800*	245
250							4.1	177.5	8,600*	250



ANSI B30.5

14000 S-2



164.0 ft

150 ft

60 ft

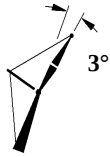
	87°			83°			75°			
	ft	°	ft	lb	°	ft	lb	°	ft	lb
75	74.4	374.1	15,400*						75	
80	72.9	372.6	15,100*						80	
85	71.5	370.9	14,800*						85	
90	70.1	369.1	14,600*						90	
95	68.6	367.1	14,300*						95	
100	67.2	365.0	14,000*	70.5	368.4	14,500*			100	
105	65.7	362.8	13,800*	69.0	366.5	14,200*			105	
110	64.2	360.3	13,500*	67.6	364.5	14,000*			110	
115	62.6	357.7	13,300*	66.1	362.2	13,700*			115	
120	61.1	355.0	13,100*	64.6	359.9	13,500*			120	
125	59.5	352.0	12,800*	63.0	357.3	13,300*			125	
130	57.9	348.9	12,600*	61.5	354.6	13,000*			130	
135	56.3	345.6	12,400*	59.9	351.7	12,800*			135	
140	54.6	342.0	12,100*	58.3	348.6	12,600*			140	
145	52.9	338.3	11,800*	56.7	345.4	12,400*			145	
150	51.2	334.3	11,500*	55.1	341.9	12,200*	62.2	351.3	12,700*	150
155	49.4	330.0	11,200*	53.4	338.2	11,900*	60.7	348.5	12,600*	155
160	47.5	325.5	10,900*	51.6	334.2	11,600*	59.1	345.5	12,400*	160
165	45.6	320.6	10,600*	49.9	330.1	11,300*	57.5	342.3	12,200*	165
170	43.7	315.4	10,300*	48.0	325.6	11,000*	55.9	338.9	12,000*	170
175	41.7	309.8	10,100*	46.2	320.8	10,700*	54.2	335.3	11,900*	175
180	39.5	303.9	9,900*	44.2	315.7	10,400*	52.5	331.5	11,700*	180
185	37.3	297.4	9,600*	42.2	310.3	10,200*	50.7	327.4	11,500*	185
190	35.0	290.3	9,400*	40.1	304.4	10,000*	48.9	323.1	11,200*	190
195	32.5	282.6	9,200*	37.9	298.1	9,700*	47.1	318.5	10,900*	195
200	29.8	274.1	9,000*	35.6	291.2	9,500*	45.2	313.6	10,600*	200
205	26.9	264.5	8,900*	33.2	283.7	9,300*	43.2	308.3	10,400*	205
210	23.6	253.6	8,700*	30.5	275.4	9,100*	41.2	302.6	10,100*	210
215	19.8	240.5	8,500*	27.7	266.2	8,900*	39.0	296.5	9,900*	215
220	15.0	223.8	8,400*	24.5	255.6	8,800*	36.8	289.9	9,700*	220
225	7.7	197.1	8,300*	20.9	243.2	8,600*	34.4	282.7	9,500*	225
230				16.5	227.8	8,500*	31.8	274.8	9,300*	230
235				10.3	205.6	8,300*	29.1	266.1	9,100*	235
240							26.1	256.2	8,900*	240
245							22.7	244.8	8,700*	245
250							18.7	231.1	8,600*	250
255							13.6	213.0	8,400*	255
260							4.0	177.7	8,300*	260

14000 S-2

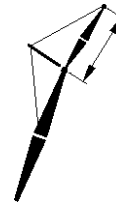
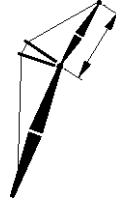
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



164.0 ft

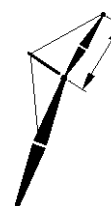
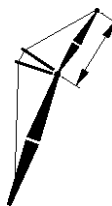
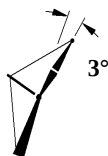
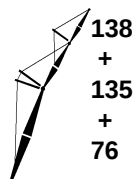
160 ft

60 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
80	73.8	383.0	14,500*							80
85	72.4	381.5	14,200*							85
90	71.0	379.7	14,000*							90
95	69.6	377.9	13,800*							95
100	68.2	375.9	13,500*							100
105	66.8	373.7	13,300*	70.0	377.2	13,600*				105
110	65.4	371.5	13,100*	68.6	375.3	13,400*				110
115	64.0	369.0	12,900*	67.2	373.2	13,200*				115
120	62.5	366.4	12,700*	65.8	371.0	13,000*				120
125	61.0	363.6	12,500*	64.4	368.5	12,800*				125
130	59.5	360.7	12,300*	62.9	366.0	12,600*				130
135	58.0	357.6	12,100*	61.4	363.3	12,400*				135
140	56.4	354.3	11,900*	59.9	360.4	12,200*				140
145	54.8	350.8	11,700*	58.4	357.3	12,000*				145
150	53.2	347.0	11,400*	56.9	354.1	11,900*				150
155	51.6	343.1	11,100*	55.3	350.6	11,700*	62.1	359.9	12,100*	155
160	49.9	338.9	10,800*	53.7	347.0	11,500*	60.7	357.1	11,900*	160
165	48.2	334.5	10,600*	52.0	343.1	11,200*	59.2	354.1	11,800*	165
170	46.4	329.7	10,300*	50.4	339.0	11,000*	57.6	351.0	11,600*	170
175	44.5	324.7	10,100*	48.6	334.6	10,700*	56.0	347.6	11,500*	175
180	42.6	319.3	9,900*	46.9	329.9	10,400*	54.5	344.1	11,300*	180
185	40.6	313.5	9,600*	45.0	325.0	10,200*	52.8	340.3	11,200*	185
190	38.6	307.3	9,400*	43.2	319.7	10,000*	51.2	336.3	11,100*	190
195	36.4	300.6	9,200*	41.2	314.0	9,800*	49.5	332.0	10,900*	195
200	34.1	293.4	9,000*	39.2	307.9	9,500*	47.7	327.5	10,600*	200
205	31.7	285.4	8,900*	37.0	301.4	9,300*	45.9	322.7	10,400*	205
210	29.1	276.7	8,700*	34.8	294.3	9,100*	44.1	317.6	10,100*	210
215	26.2	266.8	8,500*	32.4	286.6	8,900*	42.2	312.1	9,900*	215
220	23.0	255.6	8,400*	29.8	278.0	8,800*	40.2	306.2	9,700*	220
225	19.3	242.1	8,200*	27.0	268.5	8,600*	38.1	299.9	9,500*	225
230	14.7	225.0	8,100*	23.9	257.7	8,400*	35.9	293.1	9,300*	230
235	7.5	197.7	8,000*	20.4	245.0	8,300*	33.5	285.7	9,100*	235
240				16.1	229.2	8,200*	31.1	277.6	8,900*	240
245				10.0	206.4	8,100*	28.4	268.6	8,700*	245
250							25.5	258.4	8,600*	250
255							22.2	246.7	8,400*	255
260							18.3	232.6	8,300*	260
265							13.3	214.1	8,200*	265
270							3.8	178.0	7,800	270



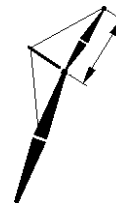
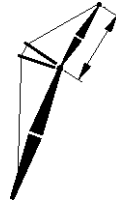
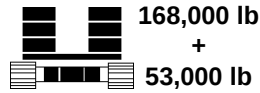
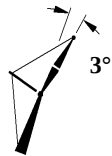
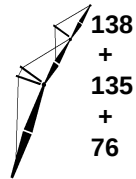
ANSI B30.5

14000 S-2

	164.0 ft			170 ft			60 ft			
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
80	74.5	393.5	13,800*							80
85	73.2	392.0	13,600*							85
90	71.9	390.3	13,400*							90
95	70.6	388.5	13,100*							95
100	69.2	386.7	12,900*							100
105	67.9	384.6	12,800*	70.9	387.9	13,000*				105
110	66.5	382.5	12,600*	69.6	386.0	12,800*				110
115	65.2	380.1	12,400*	68.3	384.0	12,600*				115
120	63.8	377.7	12,200*	66.9	381.9	12,500*				120
125	62.4	375.1	12,000*	65.6	379.6	12,300*				125
130	61.0	372.3	11,800*	64.2	377.2	12,100*				130
135	59.5	369.4	11,600*	62.8	374.7	11,900*				135
140	58.1	366.3	11,500*	61.4	371.9	11,800*				140
145	56.6	363.0	11,300*	59.9	369.0	11,600*				145
150	55.1	359.5	11,200*	58.5	366.0	11,400*				150
155	53.5	355.8	11,000*	57.0	362.8	11,300*				155
160	52.0	351.9	10,700*	55.5	359.3	11,100*	62.0	368.6	11,400*	160
165	50.4	347.8	10,500*	54.0	355.7	11,000*	60.6	365.8	11,200*	165
170	48.7	343.4	10,200*	52.4	351.9	10,800*	59.2	362.8	11,100*	170
175	47.0	338.8	9,900*	50.8	347.8	10,600*	57.7	359.7	11,000*	175
180	45.3	333.9	9,700*	49.2	343.5	10,300*	56.2	356.3	10,900*	180
185	43.5	328.6	9,500*	47.5	339.0	10,100*	54.7	352.8	10,800*	185
190	41.6	323.1	9,300*	45.8	334.1	9,800*	53.2	349.1	10,700*	190
195	39.7	317.1	9,100*	44.0	329.0	9,600*	51.6	345.1	10,600*	195
200	37.7	310.7	8,900*	42.2	323.5	9,400*	50.0	340.9	10,500*	200
205	35.6	303.8	8,700*	40.2	317.7	9,200*	48.3	336.5	10,200*	205
210	33.3	296.4	8,500*	38.2	311.4	9,000*	46.6	331.8	10,000*	210
215	31.0	288.2	8,400*	36.2	304.6	8,800*	44.8	326.8	9,700*	215
220	28.4	279.2	8,200*	34.0	297.3	8,600*	43.0	321.5	9,500*	220
225	25.6	269.1	8,100*	31.6	289.4	8,400*	41.2	315.8	9,300*	225
230	22.5	257.5	8,000*	29.1	280.6	8,300*	39.2	309.8	9,100*	230
235	18.9	243.8	7,800*	26.4	270.9	8,200*	37.2	303.3	8,900*	235
240	14.3	226.2	7,700*	23.4	259.7	8,000*	35.0	296.2	8,700*	240
245	7.3	198.3	7,600*	19.9	246.7	7,900*	32.8	288.6	8,600*	245
250				15.7	230.5	7,800*	30.4	280.3	8,400*	250
255				9.8	207.2	7,700*	27.8	271.0	8,300*	255
260							24.9	260.6	8,100*	260
265							21.7	248.6	7,900	265
270							17.9	234.2	7,600	270
275							13.0	215.2	7,300	275
280							3.8	178.3	7,000	280

14000 S-2

ANSI B30.5



173.9 ft

140 ft

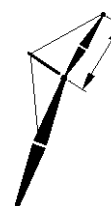
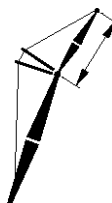
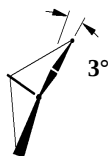
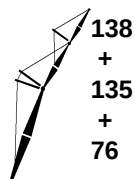
30 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	73.9	345.3	26,800*							65
70	72.2	343.8	26,600*							70
75	70.4	342.0	26,300*							75
80	68.6	340.1	26,000*							80
85	66.8	338.0	25,800*							85
90	65.0	335.7	25,600*	69.4	339.7	26,200*				90
95	63.1	333.2	25,300*	67.6	337.6	26,000*				95
100	61.2	330.5	25,200*	65.7	335.4	25,800*				100
105	59.2	327.5	24,300*	63.9	333.0	25,600*				105
110	57.3	324.4	23,400*	62.0	330.4	25,400*				110
115	55.2	321.0	22,700*	60.0	327.6	24,800*				115
120	53.2	317.3	21,900*	58.1	324.5	23,900*				120
125	51.0	313.3	21,300*	56.1	321.2	23,100*				125
130	48.8	309.0	20,600*	54.0	317.6	22,400*				130
135	46.5	304.4	20,100*	51.9	313.8	21,700*	61.5	324.8	23,700	135
140	44.1	299.3	19,500*	49.7	309.6	21,000*	59.6	321.9	22,600	140
145	41.6	293.8	19,000*	47.5	305.1	20,400*	57.6	318.8	21,500	145
150	39.0	287.8	18,500*	45.1	300.2	19,900*	55.6	315.4	20,500	150
155	36.2	281.2	18,100*	42.7	294.9	19,300*	53.5	311.8	19,500	155
160	33.2	273.8	17,700*	40.1	289.1	18,800*	51.4	307.8	18,700	160
165	30.0	265.5	17,300*	37.4	282.8	18,400*	49.2	303.6	17,800	165
170	26.4	255.9	17,000*	34.5	275.8	18,000*	46.9	299.0	17,100	170
175	22.2	244.6	16,700*	31.4	267.9	17,600*	44.5	294.0	16,300	175
180	17.1	230.1	16,400*	27.9	258.9	17,200*	42.1	288.6	15,700	180
185	9.5	207.9	16,200*	24.0	248.4	16,900*	39.5	282.7	15,000	185
190				19.4	235.4	16,600*	36.7	276.2	14,400	190
195				13.2	217.7	16,300*	33.8	268.9	13,800	195
200							30.6	260.8	13,200	200
205							27.0	251.5	12,700	205
210							23.0	240.5	12,200	210
215							18.0	226.7	11,700	215
220							11.1	206.6	11,200	220



ANSI B30.5

14000 S-2



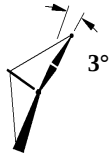
	173.9 ft			150 ft			30 ft			
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	74.9	355.7	26,200*							65
70	73.2	354.3	26,000*							70
75	71.6	352.6	25,700*							75
80	69.9	350.8	25,500*							80
85	68.2	348.8	25,300*							85
90	66.4	346.7	25,100*	70.6	350.4	25,600*				90
95	64.7	344.4	24,900*	68.9	348.5	25,400*				95
100	62.9	341.8	24,700*	67.2	346.4	25,200*				100
105	61.1	339.1	23,800*	65.4	344.1	25,000*				105
110	59.3	336.2	23,000*	63.7	341.7	24,900*				110
115	57.4	333.0	22,300*	61.9	339.1	24,300*				115
120	55.5	329.7	21,600*	60.0	336.2	23,500*				120
125	53.5	326.0	21,000*	58.2	333.2	22,700*				125
130	51.5	322.1	20,300*	56.3	329.9	22,000*				130
135	49.5	317.9	19,800*	54.4	326.4	21,300*				135
140	47.3	313.4	19,300*	52.4	322.6	20,700*	61.4	333.4	22,400	140
145	45.1	308.5	18,800*	50.3	318.5	20,100*	59.6	330.5	21,300	145
150	42.8	303.2	18,300*	48.2	314.1	19,600*	57.7	327.4	20,300	150
155	40.4	297.5	17,900*	46.0	309.4	19,100*	55.8	324.1	19,400	155
160	37.9	291.2	17,500*	43.8	304.3	18,600*	53.9	320.5	18,500	160
165	35.2	284.3	17,100*	41.4	298.7	18,200*	51.9	316.6	17,700	165
170	32.3	276.7	16,700*	38.9	292.7	17,700*	49.8	312.5	16,900	170
175	29.1	268.1	16,400*	36.3	286.1	17,300*	47.7	308.0	16,200	175
180	25.6	258.2	16,100*	33.5	278.8	17,000*	45.5	303.2	15,500	180
185	21.6	246.4	15,900*	30.5	270.6	16,600*	43.2	298.0	14,900	185
190	16.6	231.5	15,600*	27.1	261.3	16,300*	40.8	292.3	14,300	190
195	9.2	208.7	15,400*	23.3	250.4	16,100*	38.3	286.2	13,700	195
200				18.8	237.1	15,800*	35.6	279.4	13,100	200
205				12.8	218.7	15,600*	32.8	271.9	12,600	205
210							29.7	263.4	12,100	210
215							26.2	253.8	11,600	215
220							22.3	242.4	11,200	220
225							17.5	228.2	10,700	225
230							10.8	207.5	10,300	230

14000 S-2

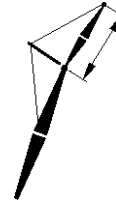
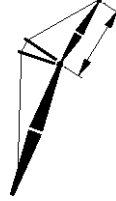
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



173.9 ft

160 ft

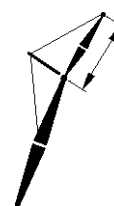
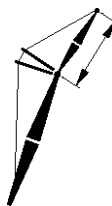
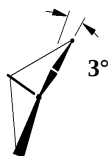
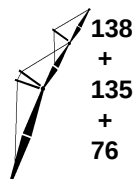
30 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.1	364.7	24,600*							70
75	72.6	363.2	24,500*							75
80	71.0	361.5	24,100*							80
85	69.4	359.6	23,800*							85
90	67.7	357.6	23,600*							90
95	66.1	355.4	23,300*	70.0	359.2	23,300*				95
100	64.4	353.0	23,100*	68.4	357.2	23,100*				100
105	62.8	350.5	22,900*	66.8	355.1	22,900*				105
110	61.1	347.8	22,500*	65.1	352.8	22,700*				110
115	59.3	344.9	21,900*	63.5	350.4	22,600*				115
120	57.5	341.7	21,200*	61.8	347.7	22,400*				120
125	55.7	338.4	20,600*	60.0	344.9	22,200*				125
130	53.9	334.8	20,000*	58.3	341.8	21,600*				130
135	52.0	330.9	19,500*	56.5	338.6	21,000*				135
140	50.1	326.8	19,000*	54.7	335.1	20,400*				140
145	48.1	322.4	18,500*	52.8	331.4	19,800*	61.3	342.1	20,600*	145
150	46.0	317.6	18,100*	50.9	327.4	19,300*	59.6	339.2	19,900	150
155	43.8	312.5	17,700*	48.9	323.1	18,800*	57.8	336.1	19,000	155
160	41.6	307.0	17,300*	46.9	318.5	18,400*	56.0	332.8	18,100	160
165	39.3	301.1	16,900*	44.7	313.5	17,900*	54.2	329.2	17,300	165
170	36.8	294.5	16,600*	42.5	308.2	17,500*	52.3	325.4	16,600	170
175	34.2	287.4	16,300*	40.3	302.4	17,200*	50.4	321.4	15,800	175
180	31.4	279.5	16,000*	37.8	296.1	16,800*	48.4	317.0	15,200	180
185	28.3	270.6	15,700*	35.3	289.2	16,500*	46.3	312.3	14,500	185
190	24.9	260.4	15,400*	32.6	281.7	16,200*	44.2	307.3	13,900	190
195	21.0	248.3	15,200*	29.6	273.2	15,900*	42.0	301.8	13,300	195
200	16.1	232.9	15,000*	26.4	263.6	15,600*	39.7	295.9	12,800	200
205	8.9	209.4	14,300*	22.7	252.4	15,400*	37.2	289.5	12,300	205
210				18.3	238.6	15,200*	34.6	282.5	11,800	210
215				12.4	219.8	14,600*	31.9	274.7	11,300	215
220							28.9	266.0	10,800	220
225							25.5	256.0	10,400	225
230							21.7	244.3	10,000	230
235							17.0	229.7	9,600	235
240							10.5	208.4	9,100	240



ANSI B30.5

14000 S-2



173.9 ft

170 ft

30 ft

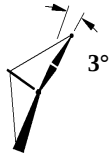
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.9	375.1	22,000*							70
75	73.4	373.6	21,900*							75
80	71.9	372.0	21,700*							80
85	70.4	370.3	21,400*							85
90	68.9	368.4	21,100*							90
95	67.4	366.3	20,900*							95
100	65.8	364.1	20,600*	69.6	368.0	20,700*				100
105	64.2	361.7	20,400*	68.0	366.0	20,400*				105
110	62.6	359.2	20,200*	66.5	363.8	20,300*				110
115	61.0	356.5	20,000*	64.9	361.5	20,100*				115
120	59.3	353.5	19,800*	63.3	359.0	19,900*				120
125	57.7	350.4	19,700*	61.7	356.4	19,700*				125
130	56.0	347.1	19,500*	60.0	353.5	19,600*				130
135	54.2	343.5	19,100*	58.4	350.5	19,400*				135
140	52.4	339.7	18,600*	56.7	347.3	19,300*				140
145	50.6	335.7	18,200*	54.9	343.8	19,200*	62.9	353.5	18,200*	145
150	48.7	331.4	17,700*	53.2	340.1	18,900*	61.3	350.8	18,100*	150
155	46.8	326.7	17,300*	51.4	336.2	18,400*	59.6	347.9	18,100*	155
160	44.8	321.8	17,000*	49.5	332.0	18,000*	58.0	344.8	17,900	160
165	42.7	316.5	16,600*	47.6	327.5	17,600*	56.2	341.5	17,000	165
170	40.5	310.7	16,300*	45.6	322.7	17,200*	54.5	338.0	16,300	170
175	38.2	304.5	16,000*	43.5	317.5	16,900*	52.7	334.2	15,600	175
180	35.8	297.8	15,700*	41.4	312.0	16,500*	50.9	330.2	14,900	180
185	33.3	290.4	15,400*	39.2	306.0	16,200*	49.0	325.9	14,200	185
190	30.6	282.2	15,200*	36.8	299.4	15,900*	47.1	321.4	13,600	190
195	27.6	273.0	15,000*	34.4	292.3	15,600*	45.1	316.5	13,100	195
200	24.3	262.5	14,600*	31.7	284.5	15,400*	43.0	311.2	12,500	200
205	20.4	250.1	14,300*	28.9	275.8	15,100*	40.9	305.6	12,000	205
210	15.7	234.3	14,100*	25.7	265.9	14,900*	38.6	299.4	11,500	210
215	8.7	210.2	13,000*	22.1	254.3	14,400*	36.2	292.8	11,000	215
220				17.8	240.2	13,900*	33.7	285.5	10,600	220
225				12.1	220.8	13,300*	31.0	277.5	10,100	225
230							28.1	268.5	9,700	230
235							24.8	258.2	9,300	235
240							21.1	246.2	8,900	240
245							16.6	231.1	8,600	245
250							10.2	209.3	8,200	250

14000 S-2

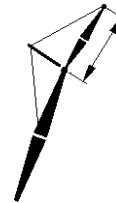
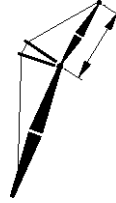
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



173.9 ft

140 ft

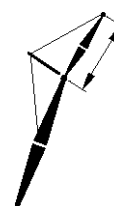
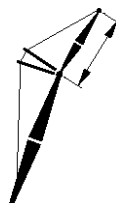
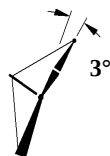
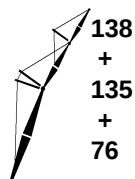
40 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	73.6	354.2	22,200*							70
75	72.0	352.6	21,900*							75
80	70.3	350.8	21,700*							80
85	68.6	348.8	21,400*							85
90	66.9	346.6	21,200*	71.0	350.3	21,800*				90
95	65.1	344.3	21,000*	69.3	348.4	21,600*				95
100	63.3	341.8	20,800*	67.6	346.3	21,400*				100
105	61.5	339.1	20,400*	65.8	344.1	21,200*				105
110	59.7	336.1	19,700*	64.1	341.6	21,000*				110
115	57.8	333.0	19,000*	62.3	339.0	20,800*				115
120	55.9	329.6	18,400*	60.5	336.2	20,100*				120
125	54.0	326.0	17,800*	58.6	333.1	19,400*				125
130	51.9	322.1	17,200*	56.7	329.8	18,700*				130
135	49.9	317.9	16,700*	54.8	326.3	18,100*				135
140	47.7	313.3	16,200*	52.8	322.5	17,600*	61.8	333.4	20,500*	140
145	45.5	308.4	15,800*	50.7	318.4	17,000*	60.0	330.5	19,900*	145
150	43.2	303.2	15,400*	48.6	314.0	16,500*	58.1	327.4	19,200*	150
155	40.8	297.4	15,000*	46.5	309.3	16,100*	56.2	324.0	18,600*	155
160	38.3	291.1	14,600*	44.2	304.2	15,600*	54.3	320.4	18,100*	160
165	35.6	284.2	14,300*	41.8	298.6	15,200*	52.3	316.6	17,500*	165
170	32.7	276.6	14,000*	39.3	292.6	14,900*	50.2	312.4	17,000*	170
175	29.5	268.0	13,700*	36.7	286.0	14,500*	48.1	308.0	16,500	175
180	26.0	258.1	13,400*	33.9	278.7	14,200*	45.9	303.1	15,800	180
185	22.0	246.3	13,200*	30.9	270.5	13,900*	43.6	297.9	15,100	185
190	17.0	231.4	13,000*	27.5	261.2	13,600*	41.2	292.2	14,500	190
195	9.5	208.4	12,800*	23.7	250.3	13,400*	38.7	286.1	13,900	195
200				19.2	236.9	13,100*	36.0	279.3	13,400	200
205				13.2	218.5	13,000*	33.2	271.8	12,900	205
210							30.1	263.3	12,400	210
215							26.6	253.7	11,900	215
220							22.7	242.3	11,400	220
225							17.9	228.0	11,000	225
230							11.1	207.3	10,500	230



ANSI B30.5

14000 S-2



173.9 ft

150 ft

40 ft

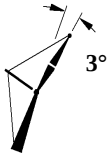
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.5	364.6	21,700*							70
75	72.9	363.1	21,500*							75
80	71.4	361.4	21,300*							80
85	69.8	359.5	21,100*							85
90	68.1	357.5	20,800*							90
95	66.5	355.4	20,600*	70.4	359.1	21,200*				95
100	64.8	353.0	20,400*	68.8	357.2	21,000*				100
105	63.2	350.5	20,000*	67.2	355.1	20,800*				105
110	61.5	347.7	19,300*	65.5	352.8	20,600*				110
115	59.7	344.8	18,700*	63.9	350.3	20,400*				115
120	57.9	341.7	18,100*	62.2	347.7	19,700*				120
125	56.1	338.3	17,500*	60.4	344.8	19,000*				125
130	54.3	334.7	17,000*	58.7	341.8	18,400*				130
135	52.4	330.9	16,500*	56.9	338.5	17,800*				135
140	50.5	326.8	16,000*	55.1	335.0	17,300*				140
145	48.4	322.3	15,600*	53.2	331.3	16,800*	61.7	342.0	19,500*	145
150	46.4	317.6	15,200*	51.3	327.3	16,300*	60.0	339.1	18,900*	150
155	44.2	312.5	14,800*	49.3	323.0	15,800*	58.2	336.0	18,300*	155
160	42.0	307.0	14,400*	47.2	318.4	15,400*	56.4	332.7	17,700*	160
165	39.7	301.0	14,100*	45.1	313.4	15,000*	54.6	329.2	17,200*	165
170	37.2	294.5	13,800*	42.9	308.1	14,700*	52.7	325.4	16,700*	170
175	34.6	287.3	13,500*	40.6	302.3	14,300*	50.8	321.3	16,300*	175
180	31.8	279.4	13,200*	38.2	296.0	14,000*	48.8	316.9	15,600*	180
185	28.7	270.5	13,000*	35.7	289.2	13,700*	46.7	312.2	15,000*	185
190	25.3	260.3	12,800*	33.0	281.6	13,400*	44.6	307.2	14,400*	190
195	21.3	248.1	12,500*	30.0	273.1	13,100*	42.4	301.8	13,800*	195
200	16.5	232.7	12,400*	26.8	263.5	12,900*	40.0	295.9	13,300*	200
205	9.2	209.1	12,200*	23.1	252.2	12,700*	37.6	289.4	12,700*	205
210				18.7	238.5	12,500*	35.0	282.4	12,200*	210
215				12.8	219.6	12,300*	32.2	274.6	11,800*	215
220							29.2	265.9	11,300*	220
225							25.9	255.9	10,900*	225
230							22.0	244.2	10,400*	230
235							17.4	229.5	10,000*	235
240							10.8	208.1	9,600*	240

14000 S-2

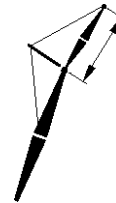
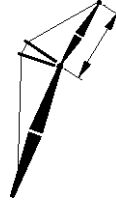
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



173.9 ft

160 ft

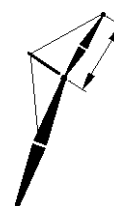
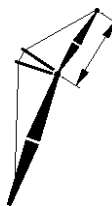
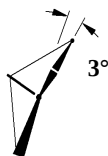
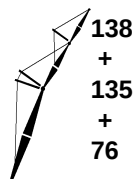
40 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	73.8	373.6	21,000*							75
80	72.3	372.0	20,800*							80
85	70.8	370.2	20,600*							85
90	69.3	368.3	20,400*							90
95	67.7	366.3	20,200*							95
100	66.2	364.1	20,000*	69.9	367.9	20,300*				100
105	64.6	361.7	19,600*	68.4	365.9	20,100*				105
110	63.0	359.1	18,900*	66.8	363.8	19,900*				110
115	61.4	356.4	18,300*	65.3	361.5	19,800*				115
120	59.7	353.5	17,700*	63.7	359.0	19,300*				120
125	58.0	350.3	17,200*	62.1	356.3	18,600*				125
130	56.3	347.0	16,700*	60.4	353.5	18,100*				130
135	54.6	343.5	16,200*	58.8	350.5	17,500*				135
140	52.8	339.7	15,800*	57.0	347.2	17,000*				140
145	51.0	335.6	15,400*	55.3	343.7	16,500*				145
150	49.1	331.3	15,000*	53.5	340.0	16,000*	61.7	350.7	18,000*	150
155	47.1	326.7	14,600*	51.7	336.1	15,600*	60.0	347.8	17,900*	155
160	45.1	321.7	14,300*	49.9	331.9	15,200*	58.3	344.7	17,400*	160
165	43.0	316.4	13,900*	47.9	327.4	14,800*	56.6	341.4	16,900*	165
170	40.9	310.6	13,600*	46.0	322.6	14,500*	54.9	337.9	16,400*	170
175	38.6	304.4	13,300*	43.9	317.4	14,100*	53.1	334.2	15,900	175
180	36.2	297.7	13,100*	41.8	311.9	13,800*	51.3	330.1	15,300	180
185	33.7	290.3	12,800*	39.5	305.9	13,500*	49.4	325.9	14,600	185
190	30.9	282.1	12,600*	37.2	299.4	13,300*	47.5	321.3	14,000	190
195	27.9	272.9	12,400*	34.7	292.2	13,000*	45.5	316.4	13,400	195
200	24.6	262.4	12,200*	32.1	284.4	12,700*	43.4	311.1	12,900	200
205	20.8	249.9	12,000*	29.2	275.7	12,500*	41.2	305.5	12,400	205
210	16.0	234.1	11,900*	26.0	265.8	12,300*	39.0	299.4	11,900	210
215	9.0	209.8	11,700*	22.5	254.2	12,100*	36.6	292.7	11,400	215
220				18.2	240.0	12,000*	34.1	285.4	11,000	220
225				12.4	220.6	11,800*	31.4	277.4	10,500	225
230							28.5	268.4	10,100	230
235							25.2	258.1	9,700	235
240							21.5	246.0	9,300	240
245							16.9	230.9	8,900	245
250							10.5	209.0	8,600	250



ANSI B30.5

14000 S-2



173.9 ft

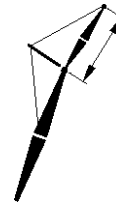
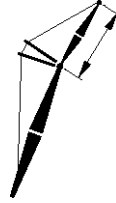
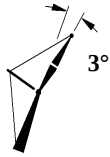
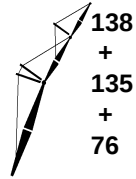
170 ft

40 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.6	384.0	19,500*							75
80	73.2	382.5	19,300*							80
85	71.8	380.8	19,000*							85
90	70.3	379.0	18,800*							90
95	68.9	377.1	18,600*							95
100	67.4	375.0	18,400*	70.9	378.6	18,400*				100
105	65.9	372.8	18,200*	69.5	376.7	18,200*				105
110	64.4	370.4	18,000*	68.0	374.7	18,000*				110
115	62.9	367.8	17,800*	66.5	372.5	17,900*				115
120	61.3	365.0	17,300*	65.0	370.2	17,700*				120
125	59.7	362.1	16,800*	63.5	367.7	17,500*				125
130	58.1	359.0	16,300*	62.0	365.0	17,400*				130
135	56.5	355.7	15,900*	60.4	362.1	17,100*				135
140	54.8	352.2	15,500*	58.8	359.1	16,600*				140
145	53.2	348.4	15,100*	57.2	355.9	16,100*				145
150	51.4	344.5	14,700*	55.5	352.5	15,700*				150
155	49.6	340.2	14,300*	53.9	348.8	15,300*	61.6	359.4	16,100*	155
160	47.8	335.7	14,000*	52.1	344.9	14,900*	60.0	356.5	16,000*	160
165	45.9	330.9	13,700*	50.4	340.8	14,500*	58.4	353.4	16,000*	165
170	44.0	325.7	13,400*	48.6	336.4	14,200*	56.8	350.1	15,900*	170
175	41.9	320.2	13,100*	46.7	331.7	13,900*	55.1	346.6	15,600*	175
180	39.8	314.2	12,800*	44.8	326.7	13,600*	53.4	342.9	15,000	180
185	37.6	307.8	12,600*	42.8	321.3	13,300*	51.7	339.0	14,300	185
190	35.3	300.8	12,400*	40.7	315.5	13,000*	49.9	334.8	13,700	190
195	32.8	293.2	12,200*	38.5	309.3	12,800*	48.1	330.3	13,200	195
200	30.1	284.8	12,000*	36.3	302.6	12,500*	46.2	325.5	12,600	200
205	27.2	275.3	11,800*	33.8	295.2	12,300*	44.3	320.4	12,100	205
210	24.0	264.5	11,600*	31.3	287.2	12,100*	42.3	315.0	11,600	210
215	20.2	251.6	11,400*	28.5	278.2	11,900*	40.2	309.1	11,200	215
220	15.6	235.4	11,300*	25.4	268.0	11,700*	38.0	302.8	10,700	220
225	8.7	210.5	11,200*	21.9	256.1	11,600*	35.7	295.9	10,300	225
230				17.7	241.5	11,400*	33.2	288.4	9,900	230
235				12.1	221.6	11,300*	30.6	280.1	9,500	235
240							27.7	270.8	9,100	240
245							24.6	260.2	8,700	245
250							20.9	247.8	8,400	250
255							16.5	232.3	8,000	255
260							10.2	209.8	7,700	260

14000 S-2

ANSI B30.5

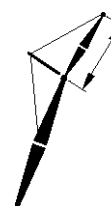
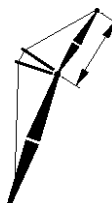
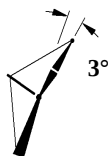
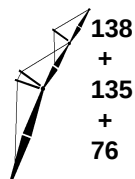


173.9 ft

140 ft

50 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.6	364.7	19,000*							70
75	73.0	363.1	18,700*							75
80	71.5	361.4	18,500*							80
85	69.9	359.6	18,300*							85
90	68.2	357.5	18,000*							90
95	66.6	355.4	17,800*	70.5	359.1	18,400*				95
100	64.9	353.0	17,600*	68.9	357.2	18,200*				100
105	63.3	350.5	17,400*	67.3	355.1	18,000*				105
110	61.5	347.7	17,200*	65.6	352.8	17,800*				110
115	59.8	344.8	16,700*	64.0	350.3	17,600*				115
120	58.0	341.7	16,100*	62.3	347.7	17,400*				120
125	56.2	338.3	15,500*	60.5	344.8	17,000*				125
130	54.4	334.7	15,000*	58.8	341.8	16,400*				130
135	52.5	330.9	14,600*	57.0	338.5	15,900*				135
140	50.5	326.8	14,100*	55.2	335.0	15,300*				140
145	48.5	322.3	13,700*	53.3	331.3	14,800*	61.8	342.0	17,200*	145
150	46.5	317.6	13,400*	51.4	327.3	14,400*	60.1	339.2	16,900*	150
155	44.3	312.5	13,000*	49.4	323.0	14,000*	58.3	336.1	16,300*	155
160	42.1	307.0	12,700*	47.3	318.4	13,600*	56.5	332.7	15,800*	160
165	39.8	301.0	12,300*	45.2	313.4	13,200*	54.7	329.2	15,300*	165
170	37.3	294.5	12,000*	43.0	308.1	12,900*	52.8	325.4	14,800*	170
175	34.7	287.3	11,800*	40.7	302.3	12,500*	50.9	321.3	14,400*	175
180	31.9	279.4	11,500*	38.3	296.0	12,200*	48.9	316.9	14,000*	180
185	28.8	270.5	11,300*	35.8	289.2	11,900*	46.8	312.2	13,600*	185
190	25.4	260.3	11,100*	33.1	281.6	11,700*	44.7	307.2	13,200*	190
195	21.5	248.2	10,900*	30.1	273.1	11,400*	42.5	301.8	12,900*	195
200	16.6	232.8	10,700*	26.9	263.5	11,200*	40.2	295.9	12,500*	200
205	9.3	209.1	10,500*	23.2	252.3	11,000*	37.7	289.5	12,200*	205
210				18.8	238.5	10,800*	35.1	282.4	11,900*	210
215				12.9	219.6	10,600*	32.3	274.6	11,700*	215
220							29.3	265.9	11,400*	220
225							26.0	255.9	11,100	225
230							22.1	244.2	10,700	230
235							17.5	229.5	10,300	235
240							10.9	208.2	9,800	240



173.9 ft

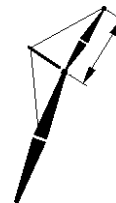
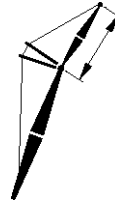
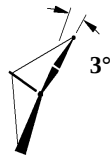
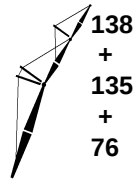
150 ft

50 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	73.9	373.6	18,400*							75
80	72.4	372.0	18,200*							80
85	70.9	370.2	18,000*							85
90	69.4	368.3	17,800*							90
95	67.8	366.3	17,600*							95
100	66.3	364.1	17,400*	70.0	367.9	17,900*				100
105	64.7	361.7	17,200*	68.5	365.9	17,700*				105
110	63.1	359.1	17,000*	66.9	363.8	17,500*				110
115	61.5	356.4	16,400*	65.4	361.5	17,300*				115
120	59.8	353.5	15,800*	63.8	359.0	17,100*				120
125	58.1	350.4	15,300*	62.2	356.3	16,700*				125
130	56.4	347.0	14,800*	60.5	353.5	16,100*				130
135	54.7	343.5	14,400*	58.8	350.5	15,600*				135
140	52.9	339.7	13,900*	57.1	347.2	15,100*				140
145	51.0	335.6	13,500*	55.4	343.8	14,600*				145
150	49.2	331.3	13,200*	53.6	340.1	14,200*	61.8	350.7	16,200*	150
155	47.2	326.7	12,800*	51.8	336.1	13,800*	60.1	347.8	16,000*	155
160	45.2	321.7	12,500*	50.0	331.9	13,400*	58.4	344.7	15,500*	160
165	43.1	316.4	12,200*	48.0	327.4	13,000*	56.7	341.4	15,000*	165
170	41.0	310.7	11,900*	46.1	322.6	12,700*	55.0	337.9	14,600*	170
175	38.7	304.5	11,600*	44.0	317.4	12,400*	53.2	334.2	14,100*	175
180	36.3	297.7	11,300*	41.9	311.9	12,100*	51.4	330.2	13,700*	180
185	33.8	290.3	11,100*	39.7	305.9	11,800*	49.5	325.9	13,400*	185
190	31.0	282.1	10,900*	37.3	299.4	11,500*	47.5	321.3	13,000*	190
195	28.0	272.9	10,700*	34.8	292.3	11,300*	45.6	316.4	12,700*	195
200	24.7	262.4	10,500*	32.2	284.4	11,000*	43.5	311.2	12,300*	200
205	20.9	249.9	10,300*	29.3	275.7	10,800*	41.3	305.5	12,000*	205
210	16.1	234.1	10,100*	26.1	265.8	10,600*	39.1	299.4	11,800*	210
215	9.1	209.9	10,000*	22.5	254.2	10,400*	36.7	292.7	11,500*	215
220				18.3	240.0	10,300*	34.2	285.4	11,300*	220
225				12.5	220.6	10,100*	31.5	277.4	11,000	225
230							28.5	268.4	10,500	230
235							25.3	258.1	10,100	235
240							21.6	246.0	9,800	240
245							17.0	230.9	9,400	245
250							10.6	209.0	9,000	250

14000 S-2

ANSI B30.5



173.9 ft

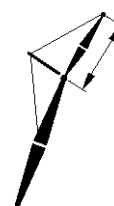
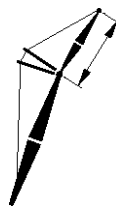
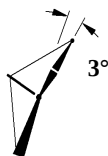
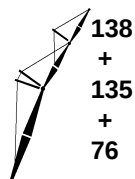
160 ft

50 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.7	384.0	18,000*							75
80	73.3	382.5	17,700*							80
85	71.8	380.9	17,500*							85
90	70.4	379.0	17,300*							90
95	68.9	377.1	17,000*							95
100	67.5	375.0	16,800*							100
105	66.0	372.8	16,600*	69.6	376.7	16,800*				105
110	64.5	370.4	16,400*	68.1	374.7	16,600*				110
115	63.0	367.8	16,100*	66.6	372.5	16,500*				115
120	61.4	365.0	15,500*	65.1	370.2	16,300*				120
125	59.8	362.1	15,000*	63.6	367.7	16,100*				125
130	58.2	359.0	14,600*	62.0	365.0	15,800*				130
135	56.6	355.7	14,100*	60.5	362.1	15,300*				135
140	54.9	352.2	13,700*	58.9	359.1	14,800*				140
145	53.2	348.5	13,300*	57.3	355.9	14,400*				145
150	51.5	344.5	13,000*	55.6	352.5	14,000*				150
155	49.7	340.2	12,600*	54.0	348.8	13,600*	61.7	359.4	15,000*	155
160	47.9	335.7	12,300*	52.2	344.9	13,200*	60.1	356.5	14,900*	160
165	46.0	330.9	12,000*	50.5	340.8	12,800*	58.5	353.4	14,700*	165
170	44.1	325.7	11,700*	48.7	336.4	12,500*	56.9	350.1	14,300*	170
175	42.0	320.2	11,500*	46.8	331.7	12,200*	55.2	346.6	13,900*	175
180	39.9	314.2	11,200*	44.9	326.7	11,900*	53.5	342.9	13,500*	180
185	37.7	307.8	11,000*	42.9	321.3	11,600*	51.8	339.0	13,100*	185
190	35.4	300.9	10,700*	40.8	315.6	11,400*	50.0	334.8	12,800*	190
195	32.9	293.2	10,500*	38.6	309.3	11,100*	48.2	330.3	12,500*	195
200	30.2	284.8	10,300*	36.4	302.6	10,900*	46.3	325.5	12,200*	200
205	27.3	275.3	10,200*	34.0	295.3	10,700*	44.4	320.5	11,900*	205
210	24.1	264.5	10,000*	31.4	287.2	10,500*	42.4	315.0	11,600*	210
215	20.4	251.7	9,800*	28.6	278.2	10,300*	40.3	309.1	11,400*	215
220	15.7	235.4	9,700*	25.5	268.0	10,100*	38.1	302.8	11,100	220
225	8.8	210.5	9,600*	22.0	256.1	9,900*	35.8	295.9	10,600	225
230				17.8	241.5	9,800*	33.3	288.4	10,200	230
235				12.2	221.6	9,700*	30.7	280.1	9,800	235
240							27.8	270.8	9,400	240
245							24.6	260.2	9,100	245
250							21.0	247.8	8,700	250
255							16.6	232.3	8,400	255
260							10.3	209.8	8,000	260



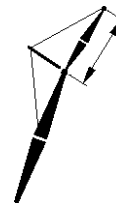
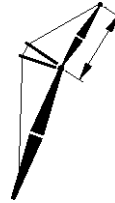
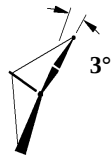
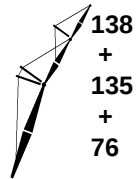
ANSI B30.5

14000 S-2

	173.9 ft			170 ft			50 ft			
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
80	74.1	393.0	16,500*							80
85	72.7	391.4	16,300*							85
90	71.3	389.7	16,100*							90
95	69.9	387.9	15,900*							95
100	68.6	385.9	15,700*							100
105	67.2	383.7	15,600*	70.5	387.4	15,600*				105
110	65.7	381.5	15,300*	69.1	385.5	15,500*				110
115	64.3	379.0	15,100*	67.7	383.4	15,300*				115
120	62.8	376.5	15,000*	66.3	381.2	15,200*				120
125	61.3	373.7	14,700*	64.9	378.9	15,000*				125
130	59.8	370.8	14,300*	63.4	376.3	14,800*				130
135	58.3	367.7	13,900*	62.0	373.7	14,700*				135
140	56.8	364.4	13,500*	60.5	370.8	14,500*				140
145	55.2	360.9	13,100*	59.0	367.8	14,100*				145
150	53.6	357.2	12,700*	57.4	364.6	13,700*				150
155	51.9	353.3	12,400*	55.8	361.2	13,300*				155
160	50.2	349.1	12,100*	54.2	357.6	12,900*	61.6	368.0	13,800*	160
165	48.5	344.7	11,800*	52.6	353.7	12,600*	60.1	365.1	13,700*	165
170	46.7	340.0	11,500*	50.9	349.7	12,300*	58.6	362.1	13,700*	170
175	44.9	335.0	11,300*	49.2	345.4	12,000*	57.0	358.8	13,600*	175
180	43.0	329.6	11,000*	47.5	340.8	11,700*	55.4	355.4	13,200*	180
185	41.0	323.9	10,800*	45.7	335.9	11,400*	53.8	351.7	12,900*	185
190	39.0	317.7	10,600*	43.8	330.7	11,200*	52.2	347.8	12,500*	190
195	36.8	311.1	10,300*	41.8	325.1	10,900*	50.5	343.7	12,200*	195
200	34.5	303.9	10,200*	39.8	319.1	10,700*	48.8	339.3	11,900*	200
205	32.1	296.0	10,000*	37.7	312.7	10,500*	47.0	334.6	11,700*	205
210	29.5	287.4	9,800*	35.5	305.8	10,300*	45.2	329.7	11,400*	210
215	26.7	277.6	9,600*	33.1	298.2	10,100*	43.3	324.4	11,200*	215
220	23.5	266.5	9,500*	30.6	289.9	9,900*	41.3	318.7	10,800	220
225	19.9	253.4	9,400*	27.9	280.6	9,800*	39.3	312.6	10,400	225
230	15.4	236.7	9,300*	24.9	270.1	9,600*	37.2	306.1	10,000	230
235	8.6	211.2	9,200*	21.5	257.9	9,500*	34.9	299.0	9,600	235
240				17.4	243.0	9,300*	32.5	291.2	9,200	240
245				11.9	222.6	9,200*	30.0	282.7	8,800	245
250							27.2	273.2	8,500	250
255							24.1	262.3	8,100	255
260							20.5	249.6	7,800	260
265							16.2	233.7	7,500	265
270							10.1	210.6	7,200	270

14000 S-2

ANSI B30.5

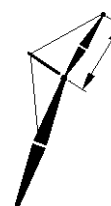
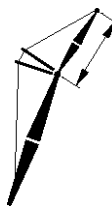
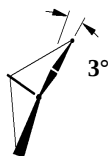
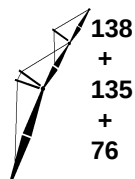


	173.9 ft			140 ft			60 ft			
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	73.7	373.6	15,900*							75
80	72.2	372.0	15,600*							80
85	70.7	370.3	15,300*							85
90	69.2	368.4	15,000*							90
95	67.7	366.3	14,700*							95
100	66.1	364.1	14,400*	69.8	368.0	14,900*				100
105	64.5	361.7	14,100*	68.3	366.0	14,600*				105
110	62.9	359.2	13,800*	66.7	363.8	14,400*				110
115	61.3	356.4	13,600*	65.2	361.5	14,100*				115
120	59.6	353.5	13,300*	63.6	359.0	13,800*				120
125	58.0	350.4	13,100*	62.0	356.4	13,600*				125
130	56.2	347.1	12,900*	60.3	353.5	13,400*				130
135	54.5	343.5	12,600*	58.7	350.5	13,100*				135
140	52.7	339.7	12,300*	57.0	347.3	12,900*				140
145	50.9	335.7	11,900*	55.2	343.8	12,700*				145
150	49.0	331.4	11,600*	53.5	340.1	12,500*	61.6	350.8	13,100*	150
155	47.0	326.7	11,200*	51.6	336.2	12,100*	59.9	347.9	12,900*	155
160	45.0	321.8	11,000*	49.8	332.0	11,800*	58.2	344.8	12,800*	160
165	43.0	316.5	10,700*	47.9	327.5	11,400*	56.5	341.5	12,600*	165
170	40.8	310.7	10,400*	45.9	322.7	11,100*	54.8	338.0	12,400*	170
175	38.5	304.5	10,100*	43.8	317.5	10,800*	53.0	334.2	12,200*	175
180	36.1	297.8	9,900*	41.7	312.0	10,600*	51.2	330.2	12,000*	180
185	33.6	290.4	9,700*	39.5	306.0	10,300*	49.3	325.9	11,700*	185
190	30.8	282.2	9,500*	37.1	299.4	10,100*	47.4	321.4	11,400*	190
195	27.9	273.0	9,300*	34.7	292.3	9,800*	45.4	316.5	11,100*	195
200	24.5	262.5	9,100*	32.0	284.5	9,600*	43.3	311.2	10,800*	200
205	20.7	250.1	8,900*	29.1	275.8	9,400*	41.2	305.6	10,600*	205
210	16.0	234.3	8,700*	26.0	265.9	9,200*	38.9	299.4	10,300*	210
215	9.0	210.2	8,500*	22.4	254.3	9,000*	36.5	292.8	10,100*	215
220				18.1	240.2	8,800*	34.0	285.5	9,800*	220
225				12.4	220.8	8,700*	31.3	277.5	9,600*	225
230							28.4	268.5	9,400*	230
235							25.1	258.2	9,200*	235
240							21.4	246.2	9,000*	240
245							16.9	231.1	8,800*	245
250							10.5	209.3	8,700*	250



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14000 S-2



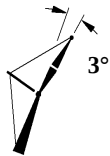
	173.9 ft			150 ft			60 ft			
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.5	384.1	15,300*							75
80	73.1	382.6	15,000*							80
85	71.7	380.9	14,700*							85
90	70.2	379.1	14,500*							90
95	68.8	377.2	14,200*							95
100	67.3	375.1	14,000*	70.8	378.6	14,400*				100
105	65.8	372.8	13,700*	69.4	376.8	14,100*				105
110	64.3	370.4	13,500*	67.9	374.7	13,900*				110
115	62.8	367.9	13,200*	66.4	372.6	13,700*				115
120	61.2	365.1	13,000*	64.9	370.2	13,500*				120
125	59.7	362.2	12,800*	63.4	367.7	13,200*				125
130	58.0	359.1	12,600*	61.9	365.0	13,000*				130
135	56.4	355.8	12,400*	60.3	362.2	12,800*				135
140	54.8	352.2	12,100*	58.7	359.2	12,600*				140
145	53.1	348.5	11,800*	57.1	356.0	12,400*				145
150	51.3	344.5	11,500*	55.5	352.5	12,200*				150
155	49.5	340.3	11,200*	53.8	348.9	12,000*	61.5	359.4	12,500*	155
160	47.7	335.8	10,900*	52.1	345.0	11,700*	59.9	356.5	12,400*	160
165	45.8	330.9	10,600*	50.3	340.9	11,400*	58.3	353.5	12,200*	165
170	43.9	325.8	10,300*	48.5	336.5	11,100*	56.7	350.2	12,000*	170
175	41.9	320.3	10,100*	46.6	331.8	10,800*	55.0	346.7	11,900*	175
180	39.8	314.3	9,900*	44.7	326.8	10,500*	53.3	343.0	11,700*	180
185	37.5	307.9	9,600*	42.7	321.4	10,200*	51.6	339.0	11,600*	185
190	35.2	300.9	9,400*	40.6	315.6	10,000*	49.8	334.9	11,300*	190
195	32.7	293.3	9,200*	38.5	309.4	9,800*	48.0	330.4	11,000*	195
200	30.1	284.9	9,000*	36.2	302.7	9,600*	46.2	325.6	10,800*	200
205	27.2	275.4	8,900*	33.8	295.3	9,400*	44.2	320.5	10,500*	205
210	23.9	264.6	8,700*	31.2	287.3	9,200*	42.2	315.1	10,200*	210
215	20.2	251.8	8,500*	28.4	278.3	9,000*	40.1	309.2	10,000*	215
220	15.6	235.6	8,400*	25.3	268.1	8,800*	37.9	302.9	9,800*	220
225	8.7	210.9	8,300*	21.8	256.2	8,600*	35.6	296.0	9,600*	225
230				17.6	241.7	8,500*	33.2	288.5	9,400*	230
235				12.1	221.8	8,300*	30.5	280.2	9,200*	235
240							27.7	270.9	9,000*	240
245							24.5	260.4	8,800*	245
250							20.9	247.9	8,700*	250
255							16.5	232.5	8,500*	255
260							10.2	210.1	8,400*	260

14000 S-2

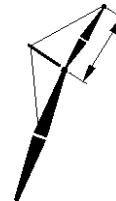
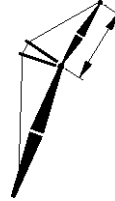
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



173.9 ft

160 ft

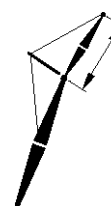
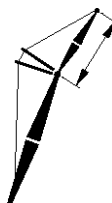
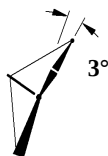
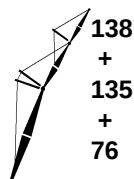
60 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
80	73.9	393.0	14,300*							80
85	72.5	391.5	14,100*							85
90	71.2	389.7	13,900*							90
95	69.8	387.9	13,700*							95
100	68.4	385.9	13,400*							100
105	67.0	383.8	13,200*	70.3	387.5	13,500*				105
110	65.6	381.5	13,000*	69.0	385.5	13,300*				110
115	64.1	379.1	12,800*	67.6	383.5	13,100*				115
120	62.7	376.5	12,600*	66.1	381.3	12,900*				120
125	61.2	373.8	12,400*	64.7	378.9	12,800*				125
130	59.7	370.8	12,200*	63.3	376.4	12,600*				130
135	58.1	367.8	12,000*	61.8	373.7	12,400*				135
140	56.6	364.5	11,800*	60.3	370.9	12,200*				140
145	55.0	361.0	11,600*	58.8	367.8	12,000*				145
150	53.4	357.3	11,400*	57.2	364.6	11,800*				150
155	51.8	353.4	11,100*	55.7	361.2	11,700*	62.9	370.8	12,000*	155
160	50.1	349.2	10,900*	54.1	357.6	11,500*	61.4	368.1	11,900*	160
165	48.3	344.8	10,600*	52.4	353.8	11,300*	59.9	365.2	11,700*	165
170	46.5	340.0	10,300*	50.8	349.7	11,000*	58.4	362.1	11,600*	170
175	44.7	335.0	10,100*	49.1	345.4	10,800*	56.8	358.9	11,500*	175
180	42.8	329.7	9,900*	47.3	340.8	10,500*	55.3	355.4	11,300*	180
185	40.8	324.0	9,700*	45.5	336.0	10,300*	53.7	351.8	11,200*	185
190	38.8	317.8	9,500*	43.6	330.7	10,000*	52.0	347.9	11,100*	190
195	36.6	311.2	9,200*	41.7	325.2	9,800*	50.3	343.7	10,900*	195
200	34.4	304.0	9,100*	39.7	319.2	9,600*	48.6	339.4	10,700*	200
205	32.0	296.1	8,900*	37.5	312.8	9,400*	46.8	334.7	10,500*	205
210	29.4	287.5	8,700*	35.3	305.8	9,200*	45.0	329.7	10,200*	210
215	26.5	277.7	8,500*	33.0	298.3	9,000*	43.1	324.5	10,000*	215
220	23.4	266.6	8,400*	30.5	290.0	8,800*	41.2	318.8	9,800*	220
225	19.7	253.5	8,300*	27.7	280.7	8,600*	39.1	312.7	9,600*	225
230	15.2	236.9	8,100*	24.7	270.2	8,500*	37.0	306.2	9,400*	230
235	8.5	211.6	8,000*	21.3	258.0	8,300*	34.8	299.1	9,200*	235
240				17.2	243.1	8,200*	32.4	291.3	9,000*	240
245				11.8	222.8	8,100*	29.8	282.8	8,800*	245
250							27.0	273.3	8,600*	250
255							23.9	262.4	8,500	255
260							20.4	249.7	8,100	260
265							16.0	233.9	7,800	265
270							10.0	210.9	7,500	270



ANSI B30.5

14000 S-2



173.9 ft

170 ft

60 ft

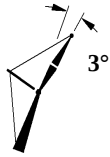
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
80	74.6	403.5	13,600*							80
85	73.3	402.0	13,400*							85
90	72.0	400.3	13,200*							90
95	70.7	398.6	13,000*							95
100	69.4	396.7	12,800*							100
105	68.0	394.7	12,600*							105
110	66.7	392.5	12,500*	69.9	396.3	12,700*				110
115	65.3	390.2	12,300*	68.6	394.3	12,600*				115
120	63.9	387.8	12,100*	67.2	392.2	12,400*				120
125	62.5	385.2	11,900*	65.9	390.0	12,200*				125
130	61.1	382.4	11,700*	64.5	387.6	12,000*				130
135	59.7	379.5	11,600*	63.1	385.1	11,900*				135
140	58.2	376.4	11,400*	61.7	382.4	11,700*				140
145	56.7	373.1	11,200*	60.3	379.5	11,500*				145
150	55.2	369.7	11,100*	58.8	376.5	11,400*				150
155	53.7	366.0	10,900*	57.4	373.3	11,200*				155
160	52.1	362.1	10,700*	55.9	369.9	11,100*	62.8	379.5	11,300*	160
165	50.5	358.0	10,500*	54.3	366.4	11,000*	61.4	376.7	11,200*	165
170	48.9	353.7	10,200*	52.8	362.6	10,800*	59.9	373.9	11,100*	170
175	47.2	349.1	10,000*	51.2	358.6	10,600*	58.5	370.8	10,900*	175
180	45.5	344.2	9,700*	49.6	354.3	10,400*	57.0	367.5	10,800*	180
185	43.7	339.0	9,500*	47.9	349.8	10,100*	55.5	364.1	10,700*	185
190	41.8	333.5	9,300*	46.2	345.1	9,900*	54.0	360.5	10,600*	190
195	39.9	327.6	9,100*	44.4	340.0	9,600*	52.4	356.7	10,500*	195
200	37.9	321.2	8,900*	42.6	334.6	9,400*	50.8	352.6	10,400*	200
205	35.8	314.4	8,700*	40.7	328.9	9,200*	49.2	348.3	10,300*	205
210	33.6	307.0	8,500*	38.7	322.7	9,000*	47.5	343.7	10,100*	210
215	31.2	298.9	8,400*	36.7	316.1	8,800*	45.8	338.9	9,900*	215
220	28.7	290.0	8,200*	34.5	308.9	8,700*	44.0	333.8	9,600*	220
225	25.9	280.0	8,100*	32.2	301.1	8,500*	42.1	328.3	9,400*	225
230	22.8	268.6	8,000*	29.8	292.6	8,300*	40.2	322.4	9,200*	230
235	19.3	255.1	7,800*	27.1	283.1	8,200*	38.2	316.2	9,000*	235
240	14.9	238.1	7,700*	24.1	272.3	8,000*	36.2	309.4	8,800*	240
245	8.3	212.2	7,700*	20.8	259.8	7,900*	34.0	302.1	8,700*	245
250				16.8	244.6	7,800*	31.6	294.1	8,500*	250
255				11.5	223.8	7,700*	29.1	285.4	8,200	255
260							26.4	275.6	7,900	260
265							23.4	264.5	7,600	265
270							19.9	251.4	7,300	270
275							15.7	235.2	7,000	275
280							9.7	211.7	6,700	280

14000 S-2

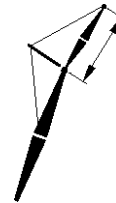
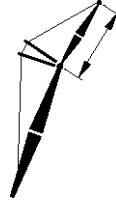
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



183.7 ft

140 ft

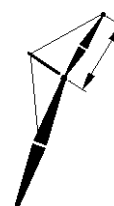
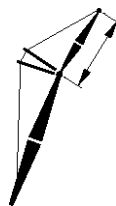
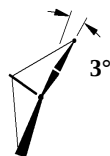
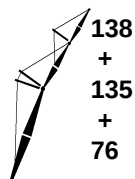
30 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	74.1	355.3	26,600*							65
70	72.4	353.8	26,300*							70
75	70.6	352.0	26,100*							75
80	68.8	350.1	25,800*							80
85	67.0	348.0	25,600*							85
90	65.2	345.8	25,400*	69.8	349.9	26,000*				90
95	63.3	343.3	25,200*	68.0	347.9	25,800*				95
100	61.4	340.6	25,000*	66.2	345.8	25,600*				100
105	59.4	337.7	24,300*	64.3	343.4	25,400*				105
110	57.5	334.5	23,400*	62.4	340.8	25,200*				110
115	55.4	331.1	22,700*	60.5	338.0	24,900*				115
120	53.4	327.5	22,000*	58.6	335.0	24,100*				120
125	51.2	323.5	21,300*	56.6	331.8	23,300*				125
130	49.0	319.3	20,700*	54.5	328.3	22,500*				130
135	46.8	314.7	20,100*	52.4	324.5	21,800*	62.5	335.7	23,100	135
140	44.4	309.7	19,500*	50.2	320.4	21,200*	60.6	332.9	21,900	140
145	41.9	304.2	19,000*	48.0	316.0	20,500*	58.6	329.9	20,900	145
150	39.3	298.3	18,600*	45.7	311.2	20,000*	56.6	326.6	19,900	150
155	36.5	291.7	18,100*	43.3	306.0	19,400*	54.6	323.1	19,000	155
160	33.6	284.4	17,700*	40.8	300.4	18,900*	52.5	319.4	18,100	160
165	30.4	276.2	17,300*	38.1	294.1	18,500*	50.3	315.3	17,300	165
170	26.8	266.8	17,000*	35.2	287.3	18,100*	48.1	310.9	16,500	170
175	22.7	255.7	16,700*	32.2	279.6	17,700*	45.7	306.1	15,800	175
180	17.7	241.6	16,400*	28.8	270.9	17,300*	43.3	300.9	15,200	180
185	10.5	220.9	16,200*	25.0	260.8	17,000*	40.8	295.3	14,500	185
190				20.6	248.6	16,700*	38.1	289.1	13,900	190
195				14.9	232.4	16,300*	35.3	282.2	13,400	195
200				4.1	200.7	15,700*	32.2	274.6	12,800	200
205							28.9	265.9	12,300	205
210							25.1	255.9	11,800	210
215							20.7	243.7	11,300	215
220							15.1	227.6	10,800	220
225							4.7	197.0	10,300	225



ANSI B30.5

14000 S-2



183.7 ft

150 ft

30 ft

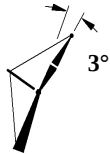
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	73.4	364.2	25,800*							70
75	71.7	362.6	25,500*							75
80	70.0	360.8	25,300*							80
85	68.3	358.9	25,100*							85
90	66.6	356.8	24,900*	71.0	360.6	25,400*				90
95	64.9	354.4	24,700*	69.3	358.7	25,200*				95
100	63.1	351.9	24,500*	67.6	356.7	25,000*				100
105	61.3	349.2	23,800*	65.8	354.5	24,800*				105
110	59.5	346.3	23,000*	64.1	352.1	24,700*				110
115	57.6	343.2	22,300*	62.3	349.5	24,400*				115
120	55.7	339.9	21,600*	60.5	346.7	23,600*				120
125	53.8	336.2	21,000*	58.6	343.7	22,800*				125
130	51.7	332.4	20,400*	56.8	340.5	22,100*				130
135	49.7	328.2	19,800*	54.8	337.0	21,400*				135
140	47.5	323.7	19,300*	52.9	333.3	20,800*	62.3	344.3	21,800	140
145	45.3	318.9	18,800*	50.8	329.3	20,200*	60.5	341.6	20,700	145
150	43.0	313.6	18,300*	48.7	325.0	19,700*	58.7	338.6	19,700	150
155	40.7	307.9	17,900*	46.6	320.3	19,200*	56.8	335.3	18,800	155
160	38.1	301.7	17,500*	44.3	315.3	18,700*	54.9	331.9	18,000	160
165	35.5	294.9	17,100*	42.0	309.9	18,200*	52.9	328.1	17,100	165
170	32.6	287.4	16,800*	39.5	304.0	17,800*	50.9	324.1	16,400	170
175	29.5	278.9	16,400*	37.0	297.5	17,400*	48.8	319.9	15,700	175
180	26.0	269.1	16,100*	34.2	290.4	17,100*	46.6	315.2	15,000	180
185	22.0	257.6	15,900*	31.2	282.4	16,700*	44.4	310.2	14,400	185
190	17.2	243.1	15,600*	28.0	273.4	16,400*	42.0	304.8	13,800	190
195	10.2	221.7	15,400*	24.3	263.0	16,100*	39.6	298.9	13,200	195
200				20.0	250.3	15,600*	37.0	292.4	12,700	200
205				14.5	233.7	15,000*	34.2	285.3	12,200	205
210				4.0	201.0	14,400*	31.3	277.4	11,700	210
215							28.0	268.4	11,200	215
220							24.4	258.0	10,800	220
225							20.1	245.4	10,300	225
230							14.6	228.9	9,900	230
235							4.5	197.4	9,400	235

14000 S-2

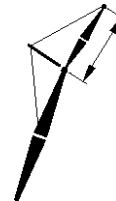
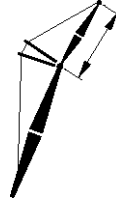
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



183.7 ft

160 ft

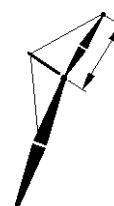
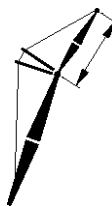
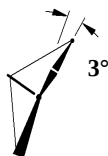
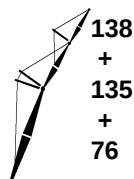
30 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.3	374.7	23,900*							70
75	72.7	373.1	23,900*							75
80	71.1	371.5	23,600*							80
85	69.5	369.6	23,300*							85
90	67.9	367.6	23,000*							90
95	66.3	365.5	22,800*	70.4	369.4	22,800*				95
100	64.6	363.1	22,600*	68.8	367.5	22,500*				100
105	62.9	360.6	22,400*	67.2	365.4	22,400*				105
110	61.2	357.9	22,200*	65.5	363.2	22,200*				110
115	59.5	355.0	21,800*	63.9	360.8	22,000*				115
120	57.7	351.9	21,200*	62.2	358.1	21,900*				120
125	55.9	348.6	20,600*	60.5	355.4	21,700*				125
130	54.1	345.0	20,000*	58.7	352.4	21,600*				130
135	52.2	341.2	19,500*	56.9	349.1	21,000*				135
140	50.3	337.1	19,000*	55.1	345.7	20,500*				140
145	48.3	332.7	18,500*	53.2	342.0	19,900*	62.2	353.0	20,000*	145
150	46.2	328.0	18,100*	51.3	338.1	19,400*	60.5	350.2	19,300	150
155	44.1	322.9	17,700*	49.4	333.9	18,900*	58.8	347.2	18,400	155
160	41.8	317.5	17,300*	47.3	329.4	18,400*	57.0	344.0	17,600	160
165	39.5	311.5	16,900*	45.3	324.5	18,000*	55.2	340.6	16,800	165
170	37.1	305.1	16,600*	43.1	319.2	17,600*	53.3	336.9	16,000	170
175	34.5	298.0	16,300*	40.8	313.6	17,200*	51.4	333.0	15,300	175
180	31.7	290.2	16,000*	38.4	307.4	16,900*	49.4	328.8	14,600	180
185	28.6	281.4	15,700*	35.9	300.7	16,500*	47.4	324.2	14,000	185
190	25.3	271.4	15,400*	33.2	293.3	16,200*	45.3	319.4	13,400	190
195	21.4	259.5	15,200*	30.4	285.1	15,700*	43.1	314.2	12,900	195
200	16.7	244.6	14,900*	27.2	275.8	15,200*	40.9	308.5	12,300	200
205	9.9	222.6	14,500*	23.6	265.0	14,600*	38.5	302.4	11,800	205
210				19.5	252.0	14,100*	36.0	295.7	11,300	210
215				14.1	234.9	13,600*	33.3	288.3	10,900	215
220				3.9	201.3	13,000*	30.4	280.1	10,400	220
225							27.3	270.8	10,000	225
230							23.7	260.1	9,600	230
235							19.5	247.1	9,200	235
240							14.2	230.1	8,800	240
245							4.4	197.7	8,400	245



ANSI B30.5

14000 S-2



183.7 ft

170 ft

30 ft

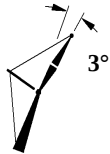
	87°			83°			75°			
	ft	°	ft	lb	°	ft	lb	°	ft	lb
75	73.6	383.6	21,400*							75
80	72.1	382.0	21,300*							80
85	70.6	380.3	21,000*							85
90	69.1	378.4	20,700*							90
95	67.5	376.4	20,400*							95
100	66.0	374.2	20,200*	69.9	378.2	20,200*				100
105	64.4	371.8	20,000*	68.4	376.2	20,000*				105
110	62.8	369.3	19,800*	66.8	374.1	19,900*				110
115	61.2	366.6	19,600*	65.3	371.9	19,700*				115
120	59.5	363.7	19,400*	63.7	369.4	19,500*				120
125	57.8	360.6	19,200*	62.1	366.8	19,300*				125
130	56.1	357.2	19,100*	60.4	364.0	19,200*				130
135	54.4	353.7	19,000*	58.8	361.0	19,000*				135
140	52.6	350.0	18,600*	57.1	357.8	18,900*				140
145	50.8	345.9	18,100*	55.4	354.4	18,800*				145
150	48.9	341.6	17,700*	53.6	350.8	18,700*	62.1	361.7	17,800*	150
155	47.0	337.0	17,300*	51.8	346.9	18,500*	60.5	358.9	17,700*	155
160	45.0	332.1	17,000*	49.9	342.8	18,100*	58.8	355.9	17,300	160
165	42.9	326.9	16,600*	48.0	338.4	17,700*	57.1	352.7	16,500	165
170	40.7	321.2	16,300*	46.1	333.6	17,300*	55.4	349.3	15,700	170
175	38.5	315.0	15,900*	44.0	328.5	16,900*	53.6	345.7	15,000	175
180	36.1	308.3	15,600*	41.9	323.1	16,600*	51.8	341.8	14,400	180
185	33.6	301.0	15,200*	39.7	317.2	16,300*	50.0	337.7	13,700	185
190	30.9	292.9	14,900*	37.4	310.8	16,000*	48.1	333.2	13,200	190
195	27.9	283.9	14,500*	35.0	303.9	15,400*	46.1	328.5	12,600	195
200	24.6	273.5	14,200*	32.4	296.2	14,900*	44.1	323.5	12,100	200
205	20.9	261.3	13,900*	29.6	287.7	14,400*	42.0	318.0	11,600	205
210	16.3	246.0	13,600*	26.5	278.1	13,900*	39.8	312.1	11,100	210
215	9.7	223.4	13,300*	23.0	267.0	13,400*	37.5	305.8	10,600	215
220				18.9	253.7	12,900*	35.0	298.8	10,200	220
225				13.7	236.0	12,400*	32.4	291.2	9,700	225
230				3.8	201.6	11,900*	29.6	282.7	9,300	230
235							26.5	273.1	9,000	235
240							23.1	262.1	8,600	240
245							19.0	248.8	8,200	245
250							13.8	231.3	7,900	250
255							4.2	198.0	7,500	255

14000 S-2

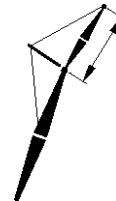
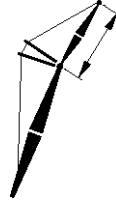
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



183.7 ft

140 ft

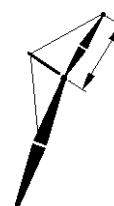
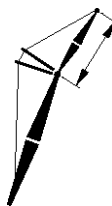
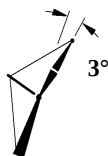
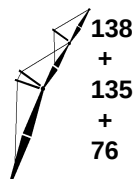
40 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	73.8	364.2	22,000*							70
75	72.1	362.6	21,800*							75
80	70.5	360.8	21,500*							80
85	68.8	358.8	21,300*							85
90	67.0	356.7	21,100*							90
95	65.3	354.4	20,800*	69.7	358.6	21,400*				95
100	63.5	351.9	20,600*	68.0	356.6	21,200*				100
105	61.7	349.2	20,400*	66.3	354.4	21,000*				105
110	59.9	346.3	19,700*	64.5	352.0	20,800*				110
115	58.0	343.1	19,000*	62.7	349.4	20,700*				115
120	56.1	339.8	18,400*	60.9	346.6	20,200*				120
125	54.2	336.2	17,800*	59.1	343.6	19,500*				125
130	52.2	332.3	17,300*	57.2	340.4	18,900*				130
135	50.1	328.1	16,800*	55.2	336.9	18,200*				135
140	48.0	323.6	16,300*	53.3	333.2	17,700*	62.8	344.3	20,400*	140
145	45.8	318.8	15,800*	51.2	329.2	17,100*	60.9	341.5	20,200*	145
150	43.5	313.5	15,400*	49.2	324.9	16,600*	59.1	338.5	19,600*	150
155	41.1	307.9	15,000*	47.0	320.2	16,200*	57.2	335.3	18,900*	155
160	38.5	301.6	14,700*	44.7	315.2	15,700*	55.3	331.8	18,200	160
165	35.9	294.8	14,300*	42.4	309.8	15,300*	53.3	328.1	17,400	165
170	33.0	287.3	14,000*	40.0	303.9	15,000*	51.3	324.1	16,700	170
175	29.9	278.8	13,700*	37.4	297.4	14,600*	49.2	319.8	15,900	175
180	26.4	269.0	13,500*	34.6	290.3	14,300*	47.0	315.1	15,300	180
185	22.4	257.5	13,200*	31.6	282.3	14,000*	44.8	310.1	14,600	185
190	17.5	242.9	13,000*	28.4	273.3	13,700*	42.5	304.7	14,000	190
195	10.5	221.4	12,800*	24.7	262.8	13,400*	40.0	298.8	13,500	195
200				20.4	250.2	13,200*	37.4	292.3	12,900	200
205				14.8	233.5	13,000*	34.7	285.2	12,400	205
210				4.2	200.1	12,900*	31.7	277.3	11,900	210
215							28.4	268.3	11,500	215
220							24.8	257.9	11,000	220
225							20.5	245.3	10,600	225
230							15.0	228.7	10,100	230
235							4.7	196.6	9,700	235



ANSI B30.5

14000 S-2



183.7 ft

150 ft

40 ft

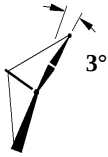
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.7	374.6	21,600*							70
75	73.1	373.1	21,300*							75
80	71.5	371.4	21,100*							80
85	69.9	369.6	20,900*							85
90	68.3	367.6	20,700*							90
95	66.7	365.4	20,500*	70.8	369.3	21,000*				95
100	65.0	363.1	20,300*	69.2	367.4	20,800*				100
105	63.3	360.5	20,000*	67.6	365.4	20,700*				105
110	61.6	357.9	19,300*	65.9	363.1	20,500*				110
115	59.9	354.9	18,700*	64.3	360.7	20,300*				115
120	58.1	351.8	18,100*	62.6	358.1	19,800*				120
125	56.3	348.5	17,500*	60.9	355.3	19,100*				125
130	54.5	344.9	17,000*	59.1	352.3	18,500*				130
135	52.6	341.1	16,500*	57.3	349.1	17,900*				135
140	50.7	337.0	16,000*	55.5	345.6	17,400*				140
145	48.7	332.6	15,600*	53.6	342.0	16,900*	62.6	353.0	19,600*	145
150	46.6	327.9	15,200*	51.7	338.0	16,400*	60.9	350.2	19,100*	150
155	44.5	322.9	14,800*	49.8	333.8	15,900*	59.1	347.2	18,500*	155
160	42.2	317.4	14,500*	47.7	329.3	15,500*	57.4	344.0	18,000*	160
165	39.9	311.5	14,100*	45.7	324.4	15,100*	55.5	340.5	17,300	165
170	37.5	305.0	13,800*	43.5	319.2	14,700*	53.7	336.9	16,500	170
175	34.8	297.9	13,500*	41.2	313.5	14,400*	51.8	332.9	15,800	175
180	32.1	290.1	13,300*	38.8	307.4	14,100*	49.8	328.7	15,100	180
185	29.0	281.3	13,000*	36.3	300.6	13,800*	47.8	324.2	14,500	185
190	25.6	271.2	12,800*	33.6	293.2	13,500*	45.7	319.3	13,900	190
195	21.8	259.3	12,600*	30.7	285.0	13,200*	43.5	314.1	13,300	195
200	17.0	244.4	12,400*	27.6	275.7	13,000*	41.2	308.4	12,800	200
205	10.2	222.2	12,200*	24.0	264.9	12,700*	38.9	302.3	12,300	205
210				19.8	251.9	12,500*	36.4	295.6	11,800	210
215				14.4	234.6	12,400*	33.7	288.2	11,300	215
220				4.0	200.4	12,200*	30.8	280.0	10,900	220
225							27.6	270.7	10,500	225
230							24.1	259.9	10,100	230
235							19.9	247.0	9,700	235
240							14.6	229.9	9,300	240
245							4.5	196.9	8,800	245

14000 S-2

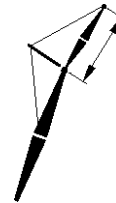
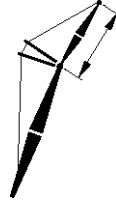
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



183.7 ft

160 ft

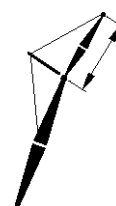
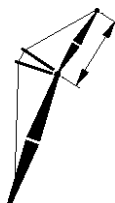
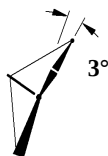
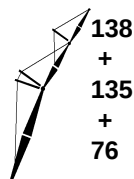
40 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.0	383.6	20,800*							75
80	72.5	382.0	20,600*							80
85	71.0	380.2	20,400*							85
90	69.4	378.4	20,200*							90
95	67.9	376.3	20,000*							95
100	66.3	374.1	19,800*	70.3	378.1	19,900*				100
105	64.8	371.8	19,600*	68.8	376.2	19,700*				105
110	63.2	369.2	18,900*	67.2	374.1	19,500*				110
115	61.5	366.5	18,300*	65.6	371.8	19,400*				115
120	59.9	363.6	17,700*	64.1	369.4	19,200*				120
125	58.2	360.5	17,200*	62.5	366.8	18,800*				125
130	56.5	357.2	16,700*	60.8	364.0	18,200*				130
135	54.8	353.7	16,200*	59.2	361.0	17,600*				135
140	53.0	349.9	15,800*	57.5	357.8	17,100*				140
145	51.2	345.9	15,400*	55.7	354.4	16,600*				145
150	49.3	341.6	15,000*	54.0	350.7	16,100*	62.5	361.6	17,600*	150
155	47.3	337.0	14,600*	52.2	346.9	15,700*	60.8	358.8	17,600*	155
160	45.3	332.1	14,300*	50.3	342.7	15,300*	59.2	355.8	17,600*	160
165	43.3	326.8	14,000*	48.4	338.3	14,900*	57.5	352.6	16,900	165
170	41.1	321.1	13,600*	46.5	333.5	14,500*	55.8	349.2	16,100	170
175	38.8	314.9	13,400*	44.4	328.5	14,200*	54.0	345.6	15,400	175
180	36.5	308.2	13,100*	42.3	323.0	13,900*	52.2	341.7	14,800	180
185	33.9	300.9	12,800*	40.1	317.1	13,600*	50.3	337.6	14,100	185
190	31.2	292.8	12,600*	37.8	310.7	13,300*	48.5	333.2	13,500	190
195	28.3	283.8	12,400*	35.3	303.8	13,000*	46.5	328.5	13,000	195
200	25.0	273.4	12,200*	32.7	296.1	12,800*	44.5	323.4	12,400	200
205	21.2	261.1	12,000*	29.9	287.6	12,600*	42.3	317.9	11,900	205
210	16.6	245.8	11,900*	26.8	278.0	12,400*	40.1	312.0	11,500	210
215	9.9	223.0	11,700*	23.4	266.9	12,200*	37.8	305.7	11,000	215
220				19.3	253.5	12,000*	35.4	298.7	10,600	220
225				14.0	235.8	11,900*	32.8	291.1	10,100	225
230				3.9	200.6	11,800*	30.0	282.6	9,700	230
235							26.9	273.0	9,300	235
240							23.4	262.0	9,000	240
245							19.4	248.6	8,600	245
250							14.2	231.1	8,200	250
255							4.4	197.2	7,800	255



ANSI B30.5

14000 S-2



183.7 ft

170 ft

40 ft

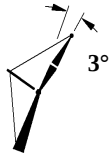
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.8	394.0	19,100*							75
80	73.3	392.5	18,900*							80
85	71.9	390.9	18,600*							85
90	70.5	389.1	18,400*							90
95	69.0	387.1	18,200*							95
100	67.5	385.1	18,000*							100
105	66.1	382.8	17,800*	69.8	387.0	17,900*				105
110	64.6	380.4	17,700*	68.3	385.0	17,700*				110
115	63.0	377.9	17,500*	66.9	382.8	17,500*				115
120	61.5	375.2	17,300*	65.4	380.5	17,400*				120
125	59.9	372.3	16,800*	63.9	378.0	17,200*				125
130	58.3	369.2	16,300*	62.3	375.4	17,100*				130
135	56.7	365.9	15,900*	60.8	372.6	17,000*				135
140	55.0	362.4	15,500*	59.2	369.6	16,700*				140
145	53.3	358.7	15,100*	57.6	366.5	16,200*				145
150	51.6	354.7	14,700*	55.9	363.1	15,800*				150
155	49.8	350.5	14,300*	54.3	359.5	15,400*	62.4	370.3	15,700*	155
160	48.0	346.0	14,000*	52.6	355.6	15,000*	60.8	367.5	15,700*	160
165	46.1	341.2	13,700*	50.8	351.6	14,600*	59.2	364.5	15,700*	165
170	44.2	336.1	13,400*	49.0	347.2	14,300*	57.6	361.3	15,600*	170
175	42.2	330.6	13,100*	47.2	342.6	13,900*	56.0	357.9	15,100	175
180	40.0	324.7	12,900*	45.2	337.7	13,600*	54.3	354.4	14,500	180
185	37.8	318.3	12,600*	43.3	332.4	13,300*	52.6	350.5	13,800	185
190	35.5	311.4	12,400*	41.2	326.7	13,100*	50.8	346.5	13,300	190
195	33.1	303.9	12,200*	39.1	320.6	12,800*	49.0	342.1	12,700	195
200	30.4	295.5	12,000*	36.8	314.0	12,600*	47.2	337.5	12,200	200
205	27.5	286.2	11,800*	34.5	306.8	12,300*	45.3	332.6	11,700	205
210	24.3	275.5	11,600*	31.9	298.9	12,100*	43.3	327.3	11,200	210
215	20.7	262.9	11,400*	29.2	290.2	11,900*	41.3	321.7	10,700	215
220	16.2	247.1	11,300*	26.2	280.3	11,800*	39.1	315.6	10,300	220
225	9.7	223.8	11,200*	22.8	268.9	11,600*	36.9	309.0	9,900	225
230				18.8	255.1	11,400*	34.5	301.8	9,500	230
235				13.7	236.9	11,300*	32.0	293.9	9,100	235
240				3.8	200.9	11,100*	29.2	285.2	8,700	240
245							26.2	275.3	8,400	245
250							22.8	263.9	8,000	250
255							18.9	250.2	7,700	255
260							13.8	232.2	7,300	260
265							4.3	197.5	7,000	265

14000 S-2

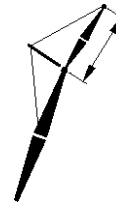
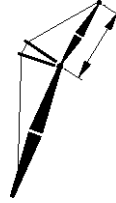
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



183.7 ft

140 ft

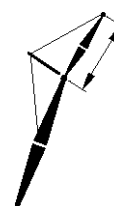
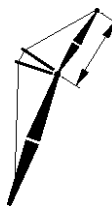
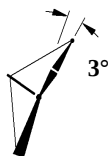
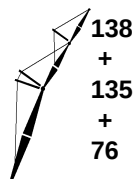
50 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.8	374.6	18,900*							70
75	73.2	373.1	18,600*							75
80	71.6	371.4	18,400*							80
85	70.0	369.6	18,100*							85
90	68.4	367.6	17,900*							90
95	66.8	365.4	17,700*	70.9	369.4	18,300*				95
100	65.1	363.1	17,500*	69.3	367.4	18,100*				100
105	63.4	360.6	17,300*	67.7	365.4	17,900*				105
110	61.7	357.9	17,100*	66.0	363.1	17,700*				110
115	60.0	355.0	16,700*	64.4	360.7	17,500*				115
120	58.2	351.8	16,100*	62.7	358.1	17,300*				120
125	56.4	348.5	15,600*	61.0	355.3	17,100*				125
130	54.6	344.9	15,100*	59.2	352.3	16,500*				130
135	52.7	341.1	14,600*	57.4	349.1	16,000*				135
140	50.8	337.0	14,200*	55.6	345.7	15,400*				140
145	48.8	332.6	13,800*	53.7	342.0	15,000*	62.7	353.0	17,100*	145
150	46.7	327.9	13,400*	51.8	338.0	14,500*	61.0	350.2	16,900*	150
155	44.6	322.9	13,000*	49.9	333.8	14,100*	59.2	347.2	16,600*	155
160	42.3	317.4	12,700*	47.8	329.3	13,700*	57.5	344.0	16,000*	160
165	40.0	311.5	12,400*	45.8	324.4	13,300*	55.6	340.5	15,500*	165
170	37.6	305.0	12,100*	43.6	319.2	12,900*	53.8	336.9	15,000*	170
175	35.0	297.9	11,800*	41.3	313.5	12,600*	51.9	332.9	14,600*	175
180	32.2	290.1	11,500*	38.9	307.4	12,300*	49.9	328.7	14,200*	180
185	29.1	281.3	11,300*	36.4	300.6	12,000*	47.9	324.2	13,800*	185
190	25.8	271.2	11,100*	33.7	293.2	11,700*	45.8	319.3	13,400*	190
195	21.9	259.4	10,900*	30.8	285.0	11,500*	43.6	314.1	13,000*	195
200	17.2	244.4	10,700*	27.7	275.7	11,300*	41.3	308.4	12,700*	200
205	10.4	222.3	10,600*	24.1	264.9	11,000*	39.0	302.3	12,400*	205
210				19.9	251.9	10,800*	36.5	295.6	12,000	210
215				14.5	234.7	10,700*	33.8	288.2	11,600	215
220				4.2	200.5	10,600*	30.9	280.0	11,100	220
225							27.7	270.7	10,700	225
230							24.2	260.0	10,300	230
235							20.0	247.0	9,900	235
240							14.7	229.9	9,500	240
245							4.7	197.0	9,100	245



ANSI B30.5

14000 S-2



183.7 ft

150 ft

50 ft

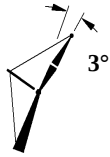
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.1	383.6	18,300*							75
80	72.6	382.0	18,100*							80
85	71.1	380.3	17,900*							85
90	69.5	378.4	17,600*							90
95	68.0	376.3	17,400*							95
100	66.4	374.1	17,200*	70.4	378.2	17,800*				100
105	64.9	371.8	17,100*	68.8	376.2	17,600*				105
110	63.3	369.2	16,900*	67.3	374.1	17,400*				110
115	61.6	366.5	16,400*	65.7	371.8	17,200*				115
120	60.0	363.6	15,800*	64.2	369.4	17,100*				120
125	58.3	360.5	15,300*	62.5	366.8	16,800*				125
130	56.6	357.2	14,800*	60.9	364.0	16,200*				130
135	54.9	353.7	14,400*	59.2	361.0	15,700*				135
140	53.1	349.9	14,000*	57.5	357.8	15,200*				140
145	51.2	345.9	13,600*	55.8	354.4	14,700*				145
150	49.4	341.6	13,200*	54.1	350.7	14,300*	62.6	361.6	16,000*	150
155	47.4	337.0	12,800*	52.3	346.9	13,900*	60.9	358.8	15,900*	155
160	45.4	332.1	12,500*	50.4	342.7	13,500*	59.3	355.8	15,700*	160
165	43.3	326.8	12,200*	48.5	338.3	13,100*	57.6	352.6	15,200*	165
170	41.2	321.1	11,900*	46.5	333.6	12,800*	55.9	349.2	14,800*	170
175	38.9	315.0	11,600*	44.5	328.5	12,400*	54.1	345.6	14,300*	175
180	36.5	308.3	11,400*	42.4	323.0	12,100*	52.3	341.7	13,900*	180
185	34.0	300.9	11,100*	40.2	317.1	11,800*	50.5	337.6	13,500*	185
190	31.3	292.8	10,900*	37.9	310.8	11,600*	48.5	333.2	13,200*	190
195	28.4	283.8	10,700*	35.4	303.8	11,300*	46.6	328.5	12,800*	195
200	25.1	273.4	10,500*	32.8	296.1	11,100*	44.5	323.4	12,500*	200
205	21.3	261.2	10,300*	30.0	287.6	10,900*	42.4	317.9	12,200*	205
210	16.7	245.8	10,200*	26.9	278.0	10,600*	40.2	312.1	11,900	210
215	10.1	223.1	10,000*	23.5	266.9	10,500*	37.9	305.7	11,400	215
220				19.4	253.5	10,300*	35.5	298.7	11,000	220
225				14.1	235.9	10,100*	32.9	291.1	10,600	225
230				4.0	200.8	10,000*	30.1	282.6	10,200	230
235							27.0	273.0	9,800	235
240							23.5	262.0	9,400	240
245							19.5	248.6	9,000	245
250							14.3	231.1	8,700	250
255							4.5	197.3	8,300	255

14000 S-2

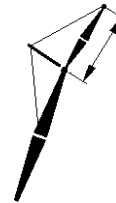
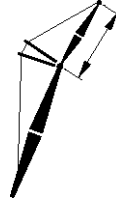
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb

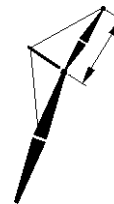
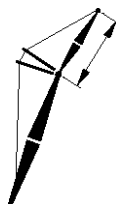
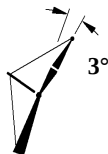
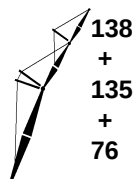


183.7 ft

160 ft

50 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.8	394.0	17,700*							75
80	73.4	392.5	17,700*							80
85	72.0	390.9	17,200*							85
90	70.6	389.1	17,000*							90
95	69.1	387.1	16,800*							95
100	67.6	385.1	16,600*							100
105	66.1	382.8	16,400*	69.9	387.0	16,600*				105
110	64.6	380.5	16,200*	68.4	385.0	16,400*				110
115	63.1	377.9	16,000*	67.0	382.8	16,300*				115
120	61.6	375.2	15,600*	65.5	380.5	16,100*				120
125	60.0	372.3	15,100*	64.0	378.0	15,900*				125
130	58.4	369.2	14,600*	62.4	375.4	15,700*				130
135	56.8	365.9	14,200*	60.9	372.6	15,400*				135
140	55.1	362.4	13,700*	59.3	369.6	14,900*				140
145	53.4	358.7	13,400*	57.7	366.5	14,500*				145
150	51.7	354.7	13,000*	56.0	363.1	14,000*				150
155	49.9	350.5	12,700*	54.4	359.5	13,600*	62.5	370.3	14,800*	155
160	48.1	346.0	12,300*	52.7	355.7	13,300*	60.9	367.5	14,700*	160
165	46.2	341.2	12,000*	50.9	351.6	12,900*	59.3	364.5	14,600*	165
170	44.3	336.1	11,700*	49.1	347.2	12,600*	57.7	361.3	14,500*	170
175	42.2	330.6	11,500*	47.2	342.6	12,300*	56.1	358.0	14,100*	175
180	40.1	324.7	11,200*	45.3	337.7	12,000*	54.4	354.4	13,700*	180
185	37.9	318.3	11,000*	43.4	332.4	11,700*	52.7	350.5	13,300*	185
190	35.6	311.4	10,800*	41.3	326.8	11,400*	50.9	346.5	13,000*	190
195	33.2	303.9	10,600*	39.2	320.6	11,200*	49.1	342.1	12,600*	195
200	30.5	295.5	10,400*	36.9	314.0	10,900*	47.3	337.5	12,300*	200
205	27.6	286.2	10,200*	34.5	306.9	10,700*	45.4	332.6	12,000*	205
210	24.4	275.5	10,000*	32.0	299.0	10,500*	43.4	327.3	11,500*	210
215	20.8	262.9	9,900*	29.3	290.2	10,300*	41.4	321.7	11,100*	215
220	16.3	247.2	9,700*	26.2	280.3	10,100*	39.2	315.6	10,600*	220
225	9.8	223.9	9,600*	22.9	268.9	10,000*	37.0	309.0	10,200*	225
230				18.9	255.1	9,800*	34.6	301.8	9,800*	230
235				13.8	237.0	9,700*	32.1	293.9	9,400*	235
240				3.9	201.0	9,600*	29.3	285.2	9,100*	240
245							26.3	275.3	8,700*	245
250							22.9	264.0	8,400*	250
255							19.0	250.2	8,000*	255
260							13.9	232.2	7,700*	260
265							4.4	197.6	7,300*	265



183.7 ft

170 ft

50 ft

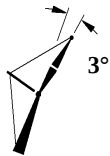
	87°			83°		
	ft	°	ft	lb	ft	lb
80	74.2	403.0	16,200*			
85	72.8	401.4	16,000*			
90	71.5	399.7	15,900*			
95	70.1	397.9	15,700*			
100	68.7	395.9	15,500*			
105	67.3	393.8	15,300*	70.9	397.6	15,400*
110	65.9	391.5	15,100*	69.5	395.7	15,300*
115	64.4	389.1	15,000*	68.1	393.7	15,100*
120	63.0	386.6	14,800*	66.7	391.5	15,000*
125	61.5	383.8	14,600*	65.2	389.2	14,800*
130	60.0	380.9	14,300*	63.8	386.7	14,700*
135	58.5	377.9	13,900*	62.3	384.1	14,500*
140	56.9	374.6	13,500*	60.8	381.3	14,400*
145	55.3	371.1	13,100*	59.3	378.3	14,200*
150	53.7	367.4	12,700*	57.8	375.1	13,800*
155	52.1	363.5	12,400*	56.2	371.8	13,400*
160	50.4	359.4	12,100*	54.6	368.2	13,000*
165	48.7	355.0	11,800*	53.0	364.4	12,700*
170	46.9	350.3	11,500*	51.3	360.4	12,300*
175	45.1	345.3	11,300*	49.6	356.2	12,000*
180	43.2	340.0	11,000*	47.9	351.7	11,700*
185	41.2	334.3	10,800*	46.1	346.9	11,500*
190	39.2	328.2	10,600*	44.2	341.7	11,200*
195	37.0	321.6	10,400*	42.3	336.2	11,000*
200	34.8	314.5	10,200*	40.3	330.4	10,700*
205	32.4	306.7	10,000*	38.2	324.1	10,500*
210	29.8	298.1	9,800*	36.0	317.2	10,300*
215	27.0	288.5	9,700*	33.7	309.8	10,100*
220	23.9	277.6	9,500*	31.2	301.7	9,900*
225	20.3	264.7	9,400*	28.6	292.7	9,800*
230	15.9	248.5	9,300*	25.6	282.5	9,600*
235	9.5	224.6	9,200*	22.3	270.8	9,500*
240				18.4	256.7	9,400*
245				13.4	238.1	9,200*
250				3.8	201.2	9,200*

14000 S-2

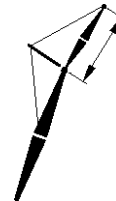
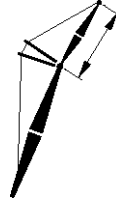
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb

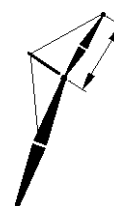
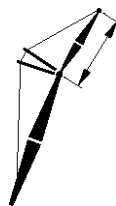
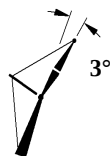
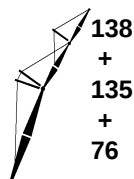


183.7 ft

140 ft

60 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	73.9	383.6	15,700*							75
80	72.4	382.0	15,400*							80
85	70.9	380.3	15,200*							85
90	69.3	378.4	14,900*							90
95	67.8	376.4	14,600*							95
100	66.2	374.2	14,300*	70.2	378.2	14,800*				100
105	64.7	371.8	14,000*	68.7	376.2	14,600*				105
110	63.1	369.3	13,800*	67.1	374.1	14,300*				110
115	61.5	366.6	13,500*	65.6	371.9	14,100*				115
120	59.8	363.7	13,300*	64.0	369.4	13,800*				120
125	58.1	360.6	13,100*	62.4	366.8	13,600*				125
130	56.4	357.2	12,800*	60.7	364.0	13,300*				130
135	54.7	353.7	12,600*	59.1	361.0	13,100*				135
140	52.9	350.0	12,300*	57.4	357.8	12,900*				140
145	51.1	345.9	11,900*	55.6	354.4	12,700*				145
150	49.2	341.6	11,600*	53.9	350.8	12,500*	62.4	361.7	13,100*	150
155	47.2	337.0	11,300*	52.1	346.9	12,200*	60.8	358.9	12,900*	155
160	45.2	332.1	11,000*	50.2	342.8	11,800*	59.1	355.9	12,700*	160
165	43.2	326.9	10,700*	48.3	338.4	11,500*	57.4	352.7	12,600*	165
170	41.0	321.2	10,400*	46.4	333.6	11,200*	55.7	349.3	12,400*	170
175	38.8	315.0	10,200*	44.3	328.5	10,900*	53.9	345.7	12,200*	175
180	36.4	308.3	9,900*	42.2	323.1	10,600*	52.1	341.8	12,000*	180
185	33.8	301.0	9,700*	40.0	317.2	10,400*	50.3	337.7	11,900*	185
190	31.1	292.9	9,500*	37.7	310.8	10,100*	48.4	333.2	11,600*	190
195	28.2	283.9	9,300*	35.3	303.9	9,900*	46.4	328.5	11,300*	195
200	24.9	273.5	9,100*	32.7	296.2	9,700*	44.4	323.5	11,000*	200
205	21.1	261.3	8,900*	29.9	287.7	9,400*	42.3	318.0	10,700*	205
210	16.5	246.0	8,700*	26.8	278.1	9,200*	40.1	312.1	10,400*	210
215	9.9	223.4	8,600*	23.3	267.0	9,000*	37.8	305.8	10,200*	215
220				19.2	253.7	8,900*	35.3	298.8	10,000*	220
225				14.0	236.0	8,700*	32.7	291.2	9,700*	225
230				4.1	201.6	8,500*	29.9	282.7	9,500*	230
235							26.8	273.1	9,300*	235
240							23.4	262.1	9,100*	240
245							19.3	248.8	8,900*	245
250							14.1	231.3	8,800*	250
255							4.5	198.0	8,500	255



183.7 ft

150 ft

60 ft

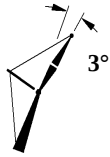
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.7	394.1	15,100*							75
80	73.2	392.5	14,900*							80
85	71.8	390.9	14,600*							85
90	70.4	389.1	14,400*							90
95	68.9	387.2	14,100*							95
100	67.4	385.1	13,900*							100
105	66.0	382.9	13,600*	69.7	387.0	14,100*				105
110	64.5	380.5	13,400*	68.3	385.0	13,800*				110
115	62.9	378.0	13,200*	66.8	382.9	13,600*				115
120	61.4	375.2	12,900*	65.3	380.6	13,400*				120
125	59.8	372.3	12,700*	63.8	378.1	13,200*				125
130	58.2	369.2	12,500*	62.2	375.5	13,000*				130
135	56.6	365.9	12,300*	60.7	372.7	12,800*				135
140	54.9	362.5	12,100*	59.1	369.7	12,600*				140
145	53.2	358.7	11,800*	57.5	366.5	12,400*				145
150	51.5	354.8	11,500*	55.9	363.1	12,200*				150
155	49.7	350.6	11,200*	54.2	359.5	12,000*	62.3	370.3	12,500*	155
160	47.9	346.1	10,900*	52.5	355.7	11,700*	60.7	367.5	12,300*	160
165	46.0	341.3	10,600*	50.7	351.6	11,400*	59.1	364.5	12,200*	165
170	44.1	336.2	10,400*	48.9	347.3	11,100*	57.5	361.4	12,000*	170
175	42.1	330.7	10,100*	47.1	342.7	10,800*	55.9	358.0	11,900*	175
180	40.0	324.8	9,900*	45.2	337.8	10,600*	54.2	354.4	11,700*	180
185	37.8	318.4	9,700*	43.2	332.5	10,300*	52.5	350.6	11,600*	185
190	35.5	311.5	9,500*	41.1	326.8	10,100*	50.8	346.5	11,400*	190
195	33.0	303.9	9,300*	39.0	320.7	9,800*	49.0	342.2	11,200*	195
200	30.4	295.6	9,100*	36.8	314.1	9,600*	47.1	337.6	10,900*	200
205	27.5	286.3	8,900*	34.4	306.9	9,400*	45.2	332.7	10,600*	205
210	24.3	275.6	8,700*	31.8	299.0	9,200*	43.2	327.4	10,400*	210
215	20.6	263.1	8,500*	29.1	290.3	9,000*	41.2	321.7	10,100*	215
220	16.1	247.3	8,400*	26.1	280.4	8,800*	39.0	315.6	9,900*	220
225	9.7	224.1	8,300*	22.7	269.0	8,700*	36.8	309.1	9,700*	225
230				18.7	255.3	8,500*	34.4	301.9	9,500*	230
235				13.6	237.2	8,400*	31.9	294.0	9,300*	235
240				3.9	201.8	8,300*	29.2	285.3	9,100*	240
245							26.2	275.4	8,900*	245
250							22.8	264.1	8,700*	250
255							18.8	250.4	8,400*	255
260							13.8	232.4	8,100*	260
265							4.4	198.3	7,800*	265

14000 S-2

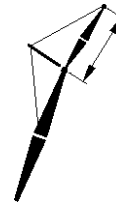
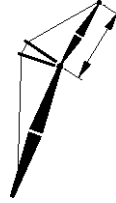
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb

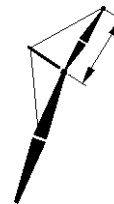
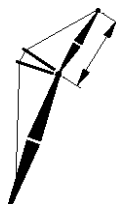
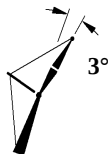
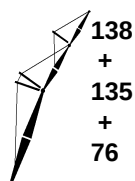


183.7 ft

160 ft

60 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
80	74.0	403.0	14,200*							80
85	72.7	401.5	14,000*							85
90	71.3	399.8	13,800*							90
95	69.9	397.9	13,600*							95
100	68.5	396.0	13,300*							100
105	67.1	393.9	13,100*	70.7	397.7	13,400*				105
110	65.7	391.6	12,900*	69.3	395.8	13,200*				110
115	64.3	389.2	12,700*	67.9	393.8	13,100*				115
120	62.8	386.6	12,500*	66.5	391.6	12,900*				120
125	61.3	383.9	12,300*	65.1	389.3	12,700*				125
130	59.8	381.0	12,100*	63.6	386.8	12,500*				130
135	58.3	377.9	11,900*	62.1	384.1	12,300*				135
140	56.8	374.6	11,800*	60.7	381.3	12,100*				140
145	55.2	371.2	11,600*	59.2	378.4	11,900*				145
150	53.6	367.5	11,400*	57.6	375.2	11,800*				150
155	51.9	363.6	11,200*	56.0	371.8	11,600*				155
160	50.2	359.5	10,900*	54.5	368.3	11,500*	62.2	379.0	11,800*	160
165	48.5	355.0	10,600*	52.8	364.5	11,300*	60.7	376.2	11,700*	165
170	46.7	350.4	10,400*	51.2	360.5	11,100*	59.2	373.2	11,600*	170
175	44.9	345.4	10,100*	49.5	356.2	10,800*	57.6	370.1	11,400*	175
180	43.0	340.1	9,900*	47.7	351.7	10,500*	56.1	366.7	11,300*	180
185	41.0	334.4	9,700*	45.9	346.9	10,300*	54.5	363.1	11,200*	185
190	39.0	328.3	9,500*	44.1	341.8	10,100*	52.9	359.4	11,000*	190
195	36.9	321.7	9,300*	42.2	336.3	9,800*	51.2	355.4	10,900*	195
200	34.6	314.6	9,100*	40.2	330.5	9,600*	49.5	351.1	10,800*	200
205	32.2	306.8	8,900*	38.1	324.1	9,400*	47.8	346.6	10,600*	205
210	29.6	298.2	8,700*	35.9	317.3	9,200*	46.0	341.8	10,300*	210
215	26.8	288.6	8,600*	33.5	309.9	9,000*	44.1	336.7	10,100*	215
220	23.7	277.7	8,400*	31.1	301.8	8,900*	42.2	331.2	9,900*	220
225	20.1	264.8	8,300*	28.4	292.8	8,700*	40.2	325.4	9,700*	225
230	15.7	248.7	8,100*	25.5	282.6	8,500*	38.1	319.1	9,500*	230
235	9.4	224.9	8,000*	22.2	270.9	8,400*	35.9	312.3	9,300*	235
240				18.3	256.8	8,200*	33.6	304.9	9,100*	240
245				13.3	238.3	8,100*	31.1	296.8	8,800*	245
250				3.8	202.1	8,000*	28.5	287.8	8,400*	250
255							25.5	277.7	8,100*	255
260							22.2	266.0	7,800*	260
265							18.4	251.9	7,500*	265
270							13.4	233.6	7,200*	270
275							4.3	198.6	6,900*	275



183.7 ft

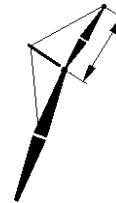
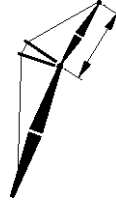
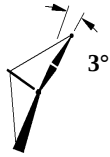
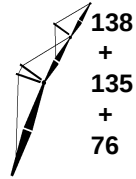
170 ft

60 ft

	87°			83°		
	ft	°	ft	lb	ft	lb
80	74.7		413.4	13,500*		
85	73.4		411.9	13,300*		
90	72.1		410.3	13,100*		
95	70.8		408.6	12,900*		
100	69.5		406.7	12,700*		
105	68.2		404.7	12,500*		
110	66.8		402.6	12,300*	70.2	406.5
115	65.5		400.3	12,200*	68.9	404.6
120	64.1		397.9	12,000*	67.6	402.5
125	62.7		395.3	11,800*	66.2	400.3
130	61.3		392.5	11,600*	64.8	398.0
135	59.8		389.6	11,500*	63.5	395.5
140	58.4		386.6	11,300*	62.0	392.8
145	56.9		383.3	11,200*	60.6	390.0
150	55.4		379.9	11,000*	59.2	387.0
155	53.9		376.2	10,900*	57.7	383.9
160	52.3		372.4	10,700*	56.2	380.5
165	50.7		368.3	10,500*	54.7	377.0
170	49.0		364.0	10,200*	53.2	373.3
175	47.4		359.4	10,000*	51.6	369.3
180	45.6		354.6	9,700*	50.0	365.1
185	43.9		349.4	9,500*	48.3	360.7
190	42.0		343.9	9,300*	46.6	356.0
195	40.1		338.0	9,100*	44.8	351.0
200	38.1		331.7	8,900*	43.0	345.7
205	36.0		324.9	8,700*	41.2	340.0
210	33.8		317.6	8,600*	39.2	334.0
215	31.5		309.6	8,400*	37.2	327.5
220	29.0		300.8	8,200*	35.0	320.5
225	26.2		290.9	8,100*	32.8	312.8
230	23.2		279.7	8,000*	30.4	304.5
235	19.7		266.5	7,900*	27.8	295.2
240	15.4		250.0	7,700*	24.9	284.8
245	9.2		225.7	7,700*	21.7	272.8
250					17.9	258.4
255					13.0	239.4
260					3.7	202.4

14000 S-2

ANSI B30.5



193.6 ft

140 ft

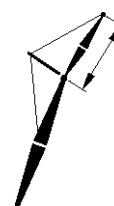
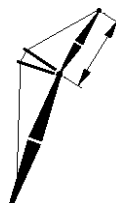
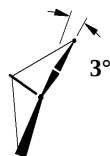
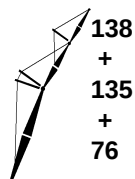
30 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
65	74.3	365.3	26,400*							65
70	72.6	363.8	26,100*							70
75	70.8	362.0	25,800*							75
80	69.0	360.1	25,600*							80
85	67.2	358.1	25,400*							85
90	65.3	355.8	25,100*	70.2	360.1	25,800*				90
95	63.5	353.4	24,900*	68.4	358.2	25,600*				95
100	61.6	350.7	24,700*	66.6	356.1	25,400*				100
105	59.6	347.8	24,300*	64.8	353.7	25,200*				105
110	57.7	344.7	23,400*	62.9	351.2	25,000*				110
115	55.7	341.3	22,700*	61.0	348.5	24,800*				115
120	53.6	337.7	22,000*	59.0	345.5	24,200*				120
125	51.5	333.8	21,300*	57.0	342.4	23,400*				125
130	49.3	329.6	20,700*	55.0	338.9	22,600*				130
135	47.0	325.0	20,100*	52.9	335.2	21,900*				135
140	44.6	320.0	19,600*	50.8	331.2	21,300*	61.5	343.9	21,200	140
145	42.2	314.6	19,100*	48.6	326.9	20,700*	59.6	341.0	20,200	145
150	39.6	308.7	18,600*	46.3	322.2	20,100*	57.6	337.8	19,200	150
155	36.8	302.2	18,100*	43.9	317.1	19,500*	55.6	334.5	18,300	155
160	33.9	295.0	17,700*	41.4	311.5	19,000*	53.5	330.8	17,500	160
165	30.7	287.0	17,400*	38.7	305.5	18,600*	51.4	326.9	16,700	165
170	27.2	277.7	17,000*	35.9	298.8	18,100*	49.2	322.7	16,000	170
175	23.1	266.8	16,700*	32.9	291.3	17,700*	46.9	318.1	15,300	175
180	18.3	253.1	16,400*	29.6	282.9	17,400*	44.6	313.1	14,600	180
185	11.5	233.5	16,200*	26.0	273.2	17,000*	42.1	307.7	14,000	185
190				21.7	261.6	16,400*	39.5	301.8	13,400	190
195				16.5	246.6	15,700*	36.8	295.3	12,900	195
200				8.2	222.7	15,100*	33.8	288.1	12,300	200
205							30.6	280.0	11,800	205
210							27.1	270.7	11,300	210
215							23.0	259.7	10,900	215
220							18.1	246.0	10,400	220
225							11.3	226.2	10,000	225



ANSI B30.5

14000 S-2



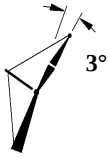
	193.6 ft			150 ft			30 ft			
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	73.6	374.2	25,500*							70
75	71.9	372.6	25,300*							75
80	70.2	370.9	25,000*							80
85	68.5	368.9	24,800*							85
90	66.8	366.8	24,600*							90
95	65.1	364.5	24,400*	69.7	368.9	24,600*				95
100	63.3	362.0	24,200*	68.0	367.0	24,500*				100
105	61.5	359.4	23,800*	66.3	364.8	24,300*				105
110	59.7	356.5	23,000*	64.5	362.4	24,200*				110
115	57.8	353.4	22,300*	62.7	359.9	24,000*				115
120	55.9	350.0	21,600*	60.9	357.1	23,700*				120
125	54.0	346.5	21,000*	59.1	354.2	22,900*				125
130	52.0	342.6	20,400*	57.2	351.0	22,200*				130
135	49.9	338.5	19,800*	55.3	347.6	21,500*				135
140	47.8	334.0	19,300*	53.3	344.0	20,900*				140
145	45.6	329.2	18,800*	51.3	340.0	20,300*	61.5	352.5	20,000	145
150	43.3	324.0	18,300*	49.2	335.8	19,800*	59.6	349.6	19,100	150
155	40.9	318.4	17,900*	47.1	331.2	19,300*	57.8	346.5	18,200	155
160	38.4	312.2	17,500*	44.9	326.3	18,800*	55.9	343.2	17,300	160
165	35.7	305.5	17,100*	42.6	321.0	18,300*	53.9	339.6	16,600	165
170	32.9	298.0	16,800*	40.1	315.2	17,900*	51.9	335.7	15,800	170
175	29.8	289.6	16,400*	37.6	308.9	17,500*	49.8	331.6	15,100	175
180	26.4	280.0	16,200*	34.9	301.9	17,100*	47.7	327.1	14,500	180
185	22.5	268.7	15,900*	32.0	294.2	16,800*	45.5	322.3	13,900	185
190	17.7	254.6	15,600*	28.8	285.4	16,100*	43.2	317.1	13,300	190
195	11.1	234.4	15,400*	25.2	275.4	15,500*	40.9	311.5	12,700	195
200				21.1	263.4	15,000*	38.3	305.3	12,200	200
205				16.0	248.0	14,400*	35.7	298.5	11,700	205
210				8.0	223.3	13,800*	32.8	291.0	11,200	210
215							29.7	282.6	10,800	215
220							26.3	273.0	10,300	220
225							22.4	261.7	9,900	225
230							17.6	247.5	9,500	230
235							10.9	227.1	9,100	235

14000 S-2

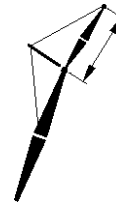
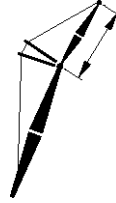
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



193.6 ft

160 ft

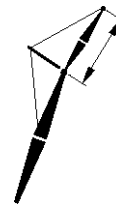
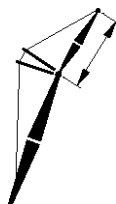
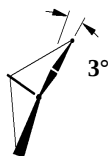
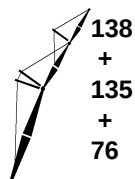
30 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.4	384.7	23,300*							70
75	72.9	383.1	23,200*							75
80	71.3	381.5	23,000*							80
85	69.7	379.7	22,600*							85
90	68.1	377.7	22,400*							90
95	66.4	375.5	22,200*	70.8	379.6	22,200*				95
100	64.8	373.2	22,000*	69.2	377.7	22,000*				100
105	63.1	370.7	22,000*	67.6	375.7	21,800*				105
110	61.4	368.0	21,600*	65.9	373.5	21,600*				110
115	59.7	365.1	21,400*	64.3	371.1	21,500*				115
120	57.9	362.0	21,100*	62.6	368.6	21,300*				120
125	56.1	358.7	20,600*	60.9	365.8	21,200*				125
130	54.3	355.2	20,000*	59.1	362.9	21,000*				130
135	52.4	351.4	19,500*	57.4	359.7	20,900*				135
140	50.5	347.3	19,000*	55.5	356.3	20,500*				140
145	48.5	343.0	18,500*	53.7	352.7	20,000*				145
150	46.4	338.3	18,100*	51.8	348.8	19,500*	61.4	361.2	18,700	150
155	44.3	333.3	17,700*	49.8	344.7	19,000*	59.6	358.3	17,800	155
160	42.1	327.9	17,300*	47.8	340.2	18,500*	57.9	355.2	17,000	160
165	39.8	322.0	16,900*	45.8	335.5	18,100*	56.1	351.9	16,200	165
170	37.3	315.6	16,600*	43.6	330.3	17,700*	54.2	348.3	15,400	170
175	34.8	308.6	16,200*	41.4	324.8	17,300*	52.4	344.5	14,800	175
180	32.0	300.9	15,800*	39.0	318.7	16,900*	50.4	340.5	14,100	180
185	29.0	292.2	15,400*	36.5	312.2	16,300*	48.4	336.1	13,500	185
190	25.6	282.3	15,000*	33.9	304.9	15,700*	46.4	331.4	12,900	190
195	21.9	270.6	14,700*	31.1	296.9	15,100*	44.2	326.4	12,400	195
200	17.2	256.1	14,400*	28.0	287.9	14,600*	42.0	321.0	11,800	200
205	10.8	235.4	14,100*	24.5	277.5	14,000*	39.7	315.1	11,300	205
210				20.5	265.2	13,500*	37.3	308.7	10,900	210
215				15.5	249.4	13,000*	34.7	301.6	10,400	215
220				7.8	224.0	12,500*	31.9	293.9	10,000	220
225							28.9	285.2	9,600	225
230							25.6	275.3	9,200	230
235							21.8	263.6	8,800	235
240							17.1	249.0	8,400	240
245							10.6	228.0	8,000	245



ANSI B30.5

14000 S-2



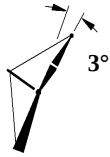
	193.6 ft			170 ft			30 ft		
75	73.8	393.6	20,800*						
80	72.2	392.0	20,700*						
85	70.8	390.3	20,500*						
90	69.2	388.5	20,200*						
95	67.7	386.4	19,900*						
100	66.1	384.2	19,700*	70.3	388.4	19,800*			
105	64.6	381.9	19,500*	68.8	386.5	19,600*			
110	63.0	379.4	19,300*	67.2	384.4	19,300*			
115	61.3	376.7	19,100*	65.6	382.2	19,200*			
120	59.7	373.8	19,000*	64.1	379.8	19,000*			
125	58.0	370.7	18,800*	62.5	377.2	18,900*			
130	56.3	367.4	18,600*	60.8	374.5	18,700*			
135	54.6	363.9	18,300*	59.2	371.5	18,600*			
140	52.8	360.2	18,000*	57.5	368.4	18,500*			
145	51.0	356.2	17,600*	55.8	365.0	18,300*			
150	49.1	351.9	17,200*	54.0	361.5	18,200*			
155	47.2	347.4	16,800*	52.2	357.6	18,100*			
160	45.2	342.5	16,400*	50.4	353.6	18,100*			
165	43.1	337.2	16,100*	48.5	349.2	17,700*			
170	41.0	331.6	15,700*	46.5	344.6	17,300*			
175	38.7	325.5	15,300*	44.5	339.6	17,000*			
180	36.3	318.9	15,000*	42.5	334.2	16,500*			
185	33.8	311.6	14,600*	40.3	328.4	15,900*			
190	31.1	303.6	14,300*	38.0	322.2	15,400*			
195	28.2	294.7	13,900*	35.6	315.4	14,800*			
200	25.0	284.5	13,600*	33.0	307.9	14,300*			
205	21.3	272.5	13,300*	30.3	299.6	13,800*			
210	16.8	257.6	13,100*	27.2	290.3	13,300*			
215	10.5	236.2	12,900*	23.9	279.6	12,800*			
220				20.0	266.9	12,300*			
225				15.1	250.6	11,900*			
230				7.6	224.6	11,400*			

14000 S-2

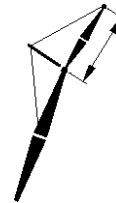
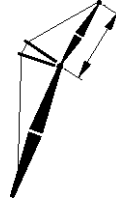
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb

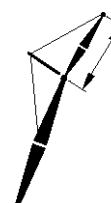
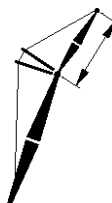
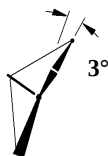
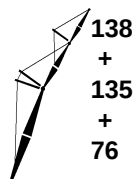


193.6 ft

140 ft

40 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.0	374.2	21,900*							70
75	72.3	372.6	21,600*							75
80	70.6	370.8	21,400*							80
85	68.9	368.9	21,100*							85
90	67.2	366.8	20,900*							90
95	65.5	364.5	20,700*	70.1	368.9	21,300*				95
100	63.7	362.0	20,500*	68.4	366.9	21,100*				100
105	61.9	359.3	20,300*	66.7	364.7	20,900*				105
110	60.1	356.4	19,700*	64.9	362.4	20,700*				110
115	58.2	353.3	19,000*	63.2	359.8	20,500*				115
120	56.3	350.0	18,400*	61.3	357.1	20,300*				120
125	54.4	346.4	17,800*	59.5	354.1	19,600*				125
130	52.4	342.5	17,300*	57.6	351.0	19,000*				130
135	50.3	338.4	16,800*	55.7	347.6	18,400*				135
140	48.2	334.0	16,300*	53.8	343.9	17,800*				140
145	46.0	329.1	15,900*	51.7	340.0	17,200*	61.9	352.5	20,200*	145
150	43.7	323.9	15,500*	49.7	335.7	16,700*	60.0	349.6	19,300	150
155	41.3	318.3	15,100*	47.5	331.2	16,300*	58.2	346.5	18,400	155
160	38.8	312.1	14,700*	45.3	326.2	15,800*	56.3	343.1	17,600	160
165	36.1	305.4	14,400*	43.0	320.9	15,400*	54.3	339.5	16,800	165
170	33.3	297.9	14,000*	40.5	315.1	15,000*	52.3	335.7	16,100	170
175	30.2	289.5	13,800*	38.0	308.8	14,700*	50.3	331.5	15,400	175
180	26.8	279.9	13,500*	35.3	301.8	14,300*	48.1	327.1	14,700	180
185	22.9	268.6	13,200*	32.4	294.1	14,000*	45.9	322.2	14,100	185
190	18.1	254.5	13,000*	29.2	285.3	13,700*	43.7	317.0	13,500	190
195	11.5	234.2	12,900*	25.6	275.3	13,500*	41.3	311.4	13,000	195
200				21.5	263.2	13,200*	38.8	305.2	12,500	200
205				16.4	247.8	13,000*	36.1	298.4	12,000	205
210				8.3	222.9	12,900*	33.2	290.9	11,500	210
215							30.1	282.5	11,000	215
220							26.7	272.9	10,600	220
225							22.8	261.5	10,200	225
230							18.0	247.4	9,700	230
235							11.3	226.8	9,300	235



193.6 ft

150 ft

40 ft

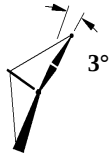
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.8	384.6	21,400*							70
75	73.3	383.1	21,200*							75
80	71.7	381.4	20,900*							80
85	70.1	379.6	20,700*							85
90	68.5	377.6	20,500*							90
95	66.8	375.5	20,300*							95
100	65.2	373.1	20,100*	69.6	377.7	20,700*				100
105	63.5	370.6	20,000*	68.0	375.6	20,500*				105
110	61.8	368.0	19,300*	66.3	373.4	20,300*				110
115	60.1	365.1	18,700*	64.7	371.1	20,200*				115
120	58.3	362.0	18,100*	63.0	368.5	19,900*				120
125	56.5	358.7	17,500*	61.3	365.8	19,200*				125
130	54.7	355.1	17,000*	59.5	362.8	18,600*				130
135	52.8	351.3	16,500*	57.8	359.6	18,000*				135
140	50.8	347.3	16,100*	55.9	356.3	17,500*				140
145	48.9	342.9	15,600*	54.1	352.6	17,000*				145
150	46.8	338.2	15,200*	52.2	348.8	16,500*	61.8	361.1	19,100*	150
155	44.7	333.2	14,800*	50.2	344.6	16,000*	60.0	358.2	18,300	155
160	42.5	327.8	14,500*	48.2	340.2	15,600*	58.3	355.1	17,400	160
165	40.2	321.9	14,200*	46.2	335.4	15,200*	56.5	351.8	16,700	165
170	37.7	315.5	13,800*	44.0	330.2	14,800*	54.6	348.3	15,900	170
175	35.1	308.5	13,500*	41.8	324.7	14,500*	52.8	344.5	15,200	175
180	32.4	300.8	13,300*	39.4	318.6	14,100*	50.8	340.4	14,600	180
185	29.4	292.1	13,000*	36.9	312.1	13,800*	48.8	336.0	14,000	185
190	26.0	282.2	12,800*	34.3	304.9	13,500*	46.8	331.4	13,400	190
195	22.2	270.5	12,600*	31.5	296.8	13,300*	44.6	326.3	12,800	195
200	17.6	256.0	12,400*	28.4	287.8	13,000*	42.4	320.9	12,300	200
205	11.1	235.1	12,200*	24.9	277.4	12,800*	40.1	315.0	11,800	205
210				20.9	265.0	12,600*	37.7	308.6	11,300	210
215				15.9	249.1	12,400*	35.1	301.6	10,900	215
220				8.1	223.6	12,300*	32.3	293.8	10,500	220
225							29.3	285.1	10,000	225
230							26.0	275.1	9,600	230
235							22.1	263.4	9,300	235
240							17.5	248.8	8,900	240
245							11.0	227.7	8,500	245

14000 S-2

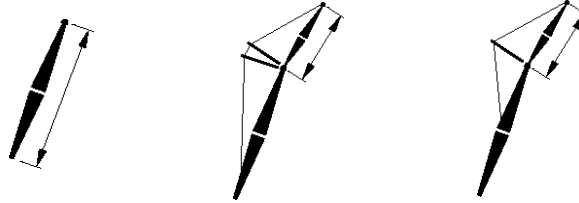
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb

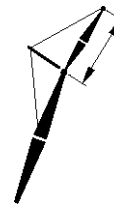
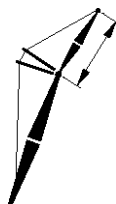
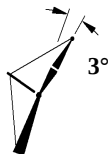
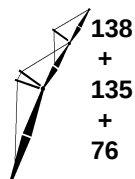


193.6 ft

160 ft

40 ft

	193.6 ft			160 ft			40 ft		
	87°			83°					
ft	°	ft	lb	°	ft	lb	ft	lb	ft
75	74.1	393.6	20,500*						
80	72.6	392.0	20,200*						
85	71.1	390.3	20,000*						
90	69.6	388.4	19,800*						
95	68.1	386.4	19,600*						
100	66.5	384.2	19,400*	70.7	388.4	19,400*			
105	64.9	381.8	19,200*	69.1	386.5	19,300*			
110	63.3	379.3	18,900*	67.6	384.4	19,100*			
115	61.7	376.6	18,300*	66.0	382.1	19,000*			
120	60.1	373.7	17,800*	64.4	379.7	18,800*			
125	58.4	370.7	17,200*	62.8	377.2	18,700*			
130	56.7	367.4	16,700*	61.2	374.4	18,200*			
135	55.0	363.9	16,200*	59.5	371.5	17,700*			
140	53.2	360.1	15,800*	57.9	368.3	17,200*			
145	51.3	356.1	15,400*	56.2	365.0	16,700*			
150	49.5	351.9	15,000*	54.4	361.4	16,200*			
155	47.5	347.3	14,600*	52.6	357.6	15,800*			
160	45.5	342.4	14,300*	50.8	353.5	15,400*			
165	43.5	337.2	14,000*	48.9	349.1	15,000*			
170	41.3	331.5	13,700*	46.9	344.5	14,600*			
175	39.1	325.4	13,400*	44.9	339.5	14,300*			
180	36.7	318.8	13,100*	42.8	334.1	14,000*			
185	34.2	311.5	12,900*	40.6	328.4	13,600*			
190	31.5	303.5	12,600*	38.3	322.1	13,400*			
195	28.6	294.6	12,400*	35.9	315.3	13,100*			
200	25.3	284.4	12,200*	33.4	307.8	12,900*			
205	21.6	272.4	12,000*	30.6	299.5	12,600*			
210	17.1	257.4	11,900*	27.6	290.2	12,400*			
215	10.8	235.9	11,700*	24.2	279.5	12,200*			
220				20.3	266.8	12,000*			
225				15.5	250.4	11,900*			
230				7.8	224.2	11,700*			



193.6 ft

170 ft

40 ft

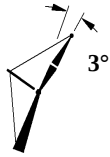
	87°			83°		
	ft	°	ft	lb	ft	lb
75	74.9		404.0	18,700*		
80	73.5		402.5	18,500*		
85	72.1		400.9	18,300*		
90	70.6		399.1	18,000*		
95	69.2		397.2	17,800*		
100	67.7		395.1	17,700*		
105	66.2		392.9	17,500*	70.2	397.2
110	64.7		390.5	17,300*	68.7	395.2
115	63.2		388.0	17,100*	67.2	393.1
120	61.6		385.3	17,200*	65.7	390.8
125	60.1		382.4	16,800*	64.2	388.4
130	58.5		379.3	16,300*	62.7	385.8
135	56.8		376.1	15,900*	61.2	383.1
140	55.2		372.6	15,500*	59.6	380.1
145	53.5		368.9	15,100*	58.0	377.0
150	51.8		365.0	14,700*	56.3	373.7
155	50.0		360.8	14,300*	54.7	370.1
160	48.2		356.3	14,000*	53.0	366.4
165	46.3		351.5	13,700*	51.2	362.4
170	44.4		346.5	13,400*	49.5	358.1
175	42.4		341.0	13,100*	47.6	353.5
180	40.3		335.2	12,900*	45.7	348.7
185	38.1		328.8	12,600*	43.8	343.5
190	35.8		322.0	12,400*	41.7	337.9
195	33.3		314.5	12,200*	39.6	331.9
200	30.7		306.2	12,000*	37.4	325.4
205	27.9		297.0	11,800*	35.0	318.4
210	24.7		286.5	11,600*	32.5	310.7
215	21.1		274.1	11,500*	29.9	302.1
220	16.7		258.8	11,300*	26.9	292.6
225	10.6		236.8	11,200*	23.6	281.6
230					19.8	268.5
235					15.1	251.7
240					7.6	224.8

14000 S-2

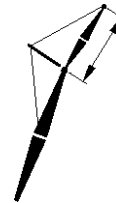
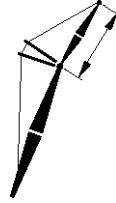
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



193.6 ft

140 ft

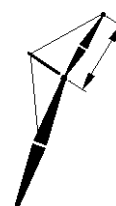
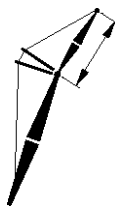
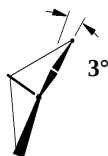
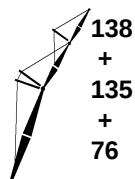
50 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
70	74.9	384.6	18,700*							70
75	73.4	383.1	18,500*							75
80	71.8	381.4	18,300*							80
85	70.2	379.6	18,000*							85
90	68.6	377.6	17,800*							90
95	66.9	375.5	17,600*							95
100	65.3	373.2	17,400*	69.7	377.7	18,000*				100
105	63.6	370.7	17,200*	68.1	375.6	17,800*				105
110	61.9	368.0	17,000*	66.4	373.4	17,600*				110
115	60.2	365.1	16,700*	64.8	371.1	17,400*				115
120	58.4	362.0	16,200*	63.1	368.5	17,200*				120
125	56.6	358.7	15,600*	61.4	365.8	17,100*				125
130	54.8	355.1	15,100*	59.6	362.8	16,600*				130
135	52.9	351.4	14,600*	57.8	359.7	16,100*				135
140	51.0	347.3	14,200*	56.0	356.3	15,600*				140
145	49.0	342.9	13,800*	54.2	352.7	15,100*				145
150	46.9	338.3	13,400*	52.3	348.8	14,600*	61.9	361.1	16,800*	150
155	44.8	333.2	13,100*	50.3	344.6	14,200*	60.1	358.2	16,600*	155
160	42.6	327.8	12,700*	48.3	340.2	13,800*	58.4	355.1	16,300*	160
165	40.2	321.9	12,400*	46.3	335.4	13,400*	56.6	351.8	15,800*	165
170	37.8	315.5	12,100*	44.1	330.2	13,000*	54.7	348.3	15,300*	170
175	35.2	308.5	11,800*	41.9	324.7	12,700*	52.8	344.5	14,800*	175
180	32.5	300.8	11,600*	39.5	318.7	12,400*	50.9	340.4	14,400*	180
185	29.5	292.1	11,300*	37.0	312.1	12,100*	48.9	336.0	14,000*	185
190	26.1	282.2	11,100*	34.4	304.9	11,800*	46.9	331.4	13,600*	190
195	22.3	270.5	10,900*	31.6	296.9	11,500*	44.7	326.3	13,100	195
200	17.7	256.0	10,700*	28.5	287.8	11,300*	42.5	320.9	12,500	200
205	11.2	235.1	10,600*	25.0	277.5	11,100*	40.2	315.0	12,000	205
210				21.0	265.1	10,900*	37.8	308.6	11,600	210
215				16.0	249.2	10,700*	35.2	301.6	11,100	215
220				8.2	223.6	10,600*	32.4	293.8	10,700	220
225							29.4	285.1	10,300	225
230							26.0	275.2	9,900	230
235							22.2	263.5	9,500	235
240							17.6	248.9	9,100	240
245							11.1	227.7	8,700	245



ANSI B30.5

14000 S-2



193.6 ft

150 ft

50 ft

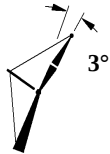
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.2	393.6	18,200*							75
80	72.7	392.0	17,900*							80
85	71.2	390.3	17,700*							85
90	69.7	388.4	17,500*							90
95	68.2	386.4	17,300*							95
100	66.6	384.2	17,100*	70.8	388.4	17,600*				100
105	65.0	381.9	17,000*	69.2	386.5	17,500*				105
110	63.4	379.3	16,800*	67.7	384.4	17,300*				110
115	61.8	376.6	16,400*	66.1	382.1	17,100*				115
120	60.2	373.8	15,900*	64.5	379.8	16,900*				120
125	58.5	370.7	15,400*	62.9	377.2	16,700*				125
130	56.8	367.4	14,900*	61.3	374.4	16,300*				130
135	55.0	363.9	14,400*	59.7	371.5	15,800*				135
140	53.3	360.1	14,000*	58.0	368.3	15,300*				140
145	51.4	356.1	13,600*	56.2	365.0	14,800*				145
150	49.6	351.9	13,200*	54.5	361.4	14,400*				150
155	47.6	347.3	12,900*	52.7	357.6	13,900*	61.8	369.8	15,700*	155
160	45.6	342.4	12,500*	50.9	353.5	13,500*	60.1	366.9	15,600*	160
165	43.6	337.2	12,200*	49.0	349.1	13,200*	58.5	363.8	15,500*	165
170	41.4	331.5	11,900*	47.0	344.5	12,800*	56.8	360.5	15,000*	170
175	39.2	325.4	11,700*	45.0	339.5	12,500*	55.0	357.0	14,600*	175
180	36.8	318.8	11,400*	42.9	334.1	12,200*	53.2	353.2	14,100*	180
185	34.3	311.5	11,100*	40.7	328.4	11,900*	51.4	349.2	13,700*	185
190	31.6	303.5	10,900*	38.5	322.1	11,600*	49.5	345.0	13,400*	190
195	28.7	294.6	10,700*	36.0	315.3	11,400*	47.6	340.4	12,900	195
200	25.4	284.4	10,500*	33.5	307.8	11,100*	45.6	335.5	12,400	200
205	21.7	272.4	10,300*	30.7	299.5	10,900*	43.5	330.3	11,900	205
210	17.2	257.4	10,200*	27.7	290.2	10,700*	41.4	324.6	11,400	210
215	10.9	236.0	10,000*	24.3	279.5	10,500*	39.1	318.5	11,000	215
220				20.4	266.8	10,300*	36.8	311.9	10,500	220
225				15.6	250.5	10,200*	34.2	304.6	10,100	225
230				7.9	224.2	10,100*	31.5	296.6	9,700	230
235							28.6	287.6	9,400	235
240							25.4	277.4	9,000	240
245							21.6	265.3	8,600	245
250							17.1	250.3	8,300	250
255							10.8	228.6	7,900	255

14000 S-2

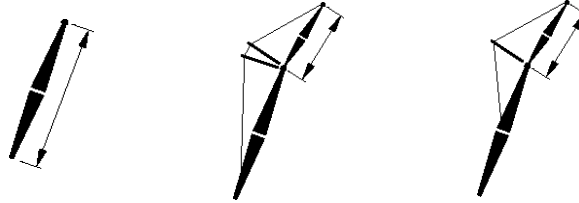
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb

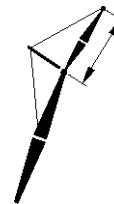
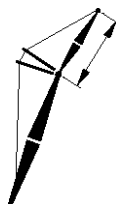
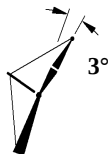
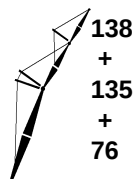


193.6 ft

160 ft

50 ft

	193.6 ft			160 ft			50 ft		
	87°			83°					
ft	°	ft	lb	°	ft	lb	°	ft	lb
75	75.0	404.0	17,400*						
80	73.6	402.5	17,200*						
85	72.2	400.9	17,000*						
90	70.7	399.1	16,800*						
95	69.2	397.2	16,600*						
100	67.8	395.1	16,400*						
105	66.3	392.9	16,200*	70.2	397.2	16,300*			
110	64.8	390.5	16,000*	68.8	395.2	16,200*			
115	63.3	388.0	15,800*	67.3	393.1	16,000*			
120	61.7	385.3	15,600*	65.8	390.9	15,800*			
125	60.2	382.4	15,100*	64.3	388.4	15,700*			
130	58.6	379.3	14,600*	62.8	385.8	15,500*			
135	56.9	376.1	14,200*	61.2	383.1	15,400*			
140	55.3	372.6	13,800*	59.7	380.1	15,000*			
145	53.6	368.9	13,400*	58.1	377.0	14,600*			
150	51.9	365.0	13,000*	56.4	373.7	14,100*			
155	50.1	360.8	12,700*	54.8	370.1	13,700*			
160	48.3	356.3	12,400*	53.1	366.4	13,300*			
165	46.4	351.6	12,000*	51.3	362.4	13,000*			
170	44.5	346.5	11,800*	49.5	358.1	12,600*			
175	42.5	341.0	11,500*	47.7	353.5	12,300*			
180	40.4	335.2	11,200*	45.8	348.7	12,000*			
185	38.2	328.9	11,000*	43.8	343.5	11,700*			
190	35.9	322.0	10,800*	41.8	337.9	11,500*			
195	33.4	314.5	10,600*	39.7	331.9	11,200*			
200	30.8	306.2	10,400*	37.5	325.5	11,000*			
205	28.0	297.0	10,200*	35.1	318.4	10,800*			
210	24.8	286.5	10,000*	32.6	310.7	10,600*			
215	21.2	274.2	9,900*	29.9	302.2	10,400*			
220	16.8	258.8	9,700*	27.0	292.6	10,200*			
225	10.6	236.8	9,600*	23.7	281.6	10,000*			
230				19.9	268.5	9,900*			
235				15.2	251.7	9,700*			
240				7.7	224.8	9,600*			



193.6 ft

170 ft

50 ft

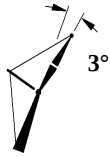
	87°			83°		
	ft	°	ft	lb	ft	lb
80	74.3		412.9	16,000*		
85	73.0		411.4	15,800*		
90	71.6		409.7	15,600*		
95	70.2		407.9	15,400*		
100	68.8		406.0	15,200*		
105	67.4		403.9	15,100*		
110	66.0		401.6	14,900*	69.8	406.0
115	64.6		399.2	14,700*	68.4	404.0
120	63.1		396.7	14,500*	67.0	401.8
125	61.7		394.0	14,400*	65.6	399.5
130	60.2		391.1	14,200*	64.1	397.1
135	58.6		388.0	13,900*	62.7	394.5
140	57.1		384.8	13,500*	61.2	391.7
145	55.5		381.3	13,100*	59.7	388.8
150	53.9		377.6	12,800*	58.2	385.7
155	52.3		373.8	12,400*	56.6	382.4
160	50.6		369.7	12,100*	55.0	378.9
165	48.9		365.3	11,800*	53.4	375.1
170	47.1		360.6	11,500*	51.7	371.2
175	45.3		355.7	11,300*	50.0	367.0
180	43.4		350.4	11,000*	48.3	362.5
185	41.4		344.8	10,800*	46.5	357.8
190	39.4		338.7	10,600*	44.7	352.8
195	37.2		332.2	10,400*	42.8	347.4
200	35.0		325.1	10,200*	40.8	341.6
205	32.6		317.4	10,000*	38.7	335.4
210	30.1		308.9	9,800*	36.6	328.7
215	27.3		299.4	9,700*	34.3	321.4
220	24.2		288.6	9,500*	31.8	313.5
225	20.7		275.9	9,400*	29.2	304.7
230	16.4		260.2	9,300*	26.4	294.9
235	10.4		237.7	9,200*	23.1	283.6
240					19.4	270.1
245					14.8	253.0
250					7.5	225.4

14000 S-2

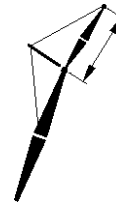
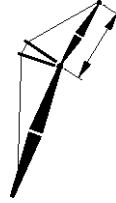
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb



193.6 ft

140 ft

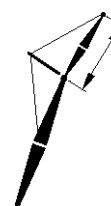
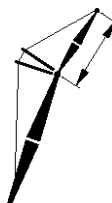
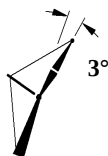
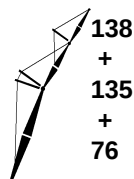
60 ft

	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.0	393.6	15,600*							75
80	72.5	392.0	15,300*							80
85	71.0	390.3	15,000*							85
90	69.5	388.5	14,800*							90
95	68.0	386.4	14,500*							95
100	66.4	384.2	14,200*	70.6	388.4	14,700*				100
105	64.8	381.9	14,000*	69.0	386.5	14,500*				105
110	63.2	379.4	13,700*	67.5	384.4	14,200*				110
115	61.6	376.7	13,500*	65.9	382.2	14,000*				115
120	60.0	373.8	13,200*	64.3	379.8	13,700*				120
125	58.3	370.7	13,000*	62.7	377.2	13,500*				125
130	56.6	367.4	12,800*	61.1	374.5	13,300*				130
135	54.9	363.9	12,600*	59.5	371.5	13,100*				135
140	53.1	360.2	12,300*	57.8	368.4	12,800*				140
145	51.2	356.2	11,900*	56.1	365.0	12,600*				145
150	49.4	351.9	11,600*	54.3	361.5	12,400*				150
155	47.5	347.4	11,300*	52.5	357.6	12,200*	61.6	369.8	12,900*	155
160	45.5	342.5	11,000*	50.7	353.6	11,900*	59.9	366.9	12,700*	160
165	43.4	337.2	10,700*	48.8	349.2	11,600*	58.3	363.9	12,500*	165
170	41.2	331.6	10,400*	46.8	344.5	11,300*	56.6	360.6	12,400*	170
175	39.0	325.5	10,200*	44.8	339.6	11,000*	54.8	357.0	12,200*	175
180	36.6	318.9	9,900*	42.7	334.2	10,700*	53.0	353.3	12,000*	180
185	34.1	311.6	9,700*	40.5	328.4	10,400*	51.2	349.3	11,900*	185
190	31.4	303.6	9,500*	38.3	322.2	10,200*	49.3	345.0	11,700*	190
195	28.5	294.7	9,300*	35.9	315.4	9,900*	47.4	340.5	11,400*	195
200	25.3	284.5	9,100*	33.3	307.9	9,700*	45.4	335.6	11,100*	200
205	21.6	272.5	8,900*	30.5	299.6	9,500*	43.3	330.3	10,800*	205
210	17.1	257.6	8,700*	27.5	290.3	9,300*	41.2	324.7	10,600*	210
215	10.8	236.2	8,600*	24.2	279.6	9,100*	39.0	318.6	10,300*	215
220				20.3	266.9	8,900*	36.6	311.9	10,100*	220
225				15.4	250.6	8,700*	34.1	304.7	9,800*	225
230				7.8	224.6	8,600*	31.4	296.7	9,600*	230
235							28.4	287.7	9,400*	235
240							25.2	277.5	9,200	240
245							21.5	265.4	8,900	245
250							17.0	250.4	8,500	250
255							10.6	228.8	8,200	255



ANSI B30.5

14000 S-2



193.6 ft

150 ft

60 ft

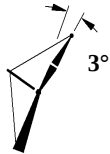
	87°			83°			75°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
75	74.8	404.0	15,000*							75
80	73.4	402.5	14,700*							80
85	72.0	400.9	14,500*							85
90	70.5	399.1	14,200*							90
95	69.1	397.2	14,000*							95
100	67.6	395.2	13,800*							100
105	66.1	393.0	13,500*	70.1	397.2	13,900*				105
110	64.6	390.6	13,300*	68.6	395.3	13,700*				110
115	63.1	388.0	13,100*	67.1	393.2	13,500*				115
120	61.5	385.3	12,900*	65.7	390.9	13,300*				120
125	60.0	382.5	12,700*	64.1	388.5	13,100*				125
130	58.4	379.4	12,500*	62.6	385.9	12,900*				130
135	56.8	376.1	12,300*	61.1	383.1	12,700*				135
140	55.1	372.6	12,100*	59.5	380.2	12,500*				140
145	53.4	369.0	11,800*	57.9	377.1	12,300*				145
150	51.7	365.0	11,500*	56.2	373.7	12,100*				150
155	49.9	360.8	11,200*	54.6	370.2	11,900*				155
160	48.1	356.4	10,900*	52.9	366.4	11,800*	61.5	378.5	12,300*	160
165	46.2	351.6	10,600*	51.2	362.4	11,500*	60.0	375.6	12,100*	165
170	44.3	346.5	10,400*	49.4	358.1	11,200*	58.3	372.5	12,000*	170
175	42.3	341.1	10,100*	47.5	353.6	10,900*	56.7	369.3	11,800*	175
180	40.2	335.2	9,900*	45.6	348.7	10,600*	55.1	365.8	11,700*	180
185	38.0	328.9	9,700*	43.7	343.5	10,400*	53.4	362.1	11,500*	185
190	35.7	322.1	9,500*	41.6	338.0	10,100*	51.7	358.1	11,400*	190
195	33.3	314.6	9,300*	39.5	332.0	9,900*	49.9	354.0	11,300*	195
200	30.6	306.3	9,100*	37.3	325.5	9,700*	48.1	349.5	11,000*	200
205	27.8	297.1	8,900*	35.0	318.5	9,500*	46.2	344.7	10,800*	205
210	24.6	286.6	8,700*	32.5	310.8	9,300*	44.2	339.6	10,500*	210
215	21.0	274.3	8,600*	29.8	302.2	9,100*	42.2	334.2	10,300*	215
220	16.6	259.0	8,400*	26.8	292.7	8,900*	40.2	328.3	10,000*	220
225	10.5	237.1	8,300*	23.6	281.7	8,700*	38.0	322.0	9,800*	225
230				19.8	268.6	8,600*	35.7	315.1	9,600*	230
235				15.0	251.9	8,400*	33.2	307.6	9,400*	235
240				7.6	225.2	8,300*	30.6	299.4	9,100	240
245							27.7	290.1	8,700	245
250							24.6	279.6	8,400	250
255							20.9	267.2	8,100	255
260							16.5	251.8	7,700	260
265							10.4	229.7	7,400	265

14000 S-2

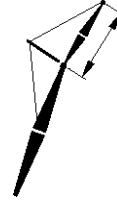
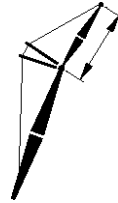
ANSI B30.5



138
+
135
+
76



168,000 lb
+
53,000 lb

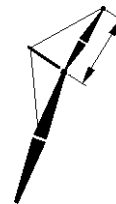
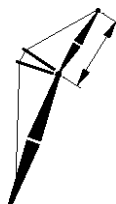
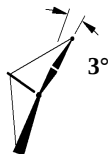
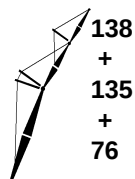


193.6 ft

160 ft

60 ft

	193.6 ft			160 ft			60 ft		
	87°			83°					
ft	°	ft	lb	°	ft	lb	ft	lb	lb
80	74.2	413.0	14,000*						
85	72.8	411.4	13,800*						
90	71.4	409.8	13,600*						
95	70.1	408.0	13,400*						
100	68.7	406.0	13,200*						
105	67.3	403.9	13,000*						
110	65.8	401.7	12,800*	69.6	406.0	13,100*			
115	64.4	399.3	12,600*	68.2	404.0	12,900*			
120	63.0	396.7	12,400*	66.8	401.9	12,800*			
125	61.5	394.0	12,200*	65.4	399.6	12,600*			
130	60.0	391.1	12,000*	64.0	397.2	12,400*			
135	58.5	388.1	11,800*	62.5	394.6	12,200*			
140	56.9	384.8	11,700*	61.0	391.8	12,000*			
145	55.3	381.4	11,500*	59.5	388.9	11,900*			
150	53.7	377.7	11,400*	58.0	385.7	11,700*			
155	52.1	373.8	11,200*	56.4	382.4	11,600*			
160	50.4	369.7	10,900*	54.8	378.9	11,400*			
165	48.7	365.4	10,600*	53.2	375.2	11,300*			
170	46.9	360.7	10,400*	51.6	371.2	11,100*			
175	45.1	355.8	10,100*	49.9	367.0	10,900*			
180	43.2	350.5	9,900*	48.2	362.6	10,600*			
185	41.3	344.8	9,700*	46.4	357.9	10,300*			
190	39.2	338.8	9,500*	44.5	352.8	10,100*			
195	37.1	332.2	9,300*	42.6	347.4	9,900*			
200	34.8	325.2	9,100*	40.6	341.7	9,700*			
205	32.5	317.5	8,900*	38.6	335.5	9,500*			
210	29.9	309.0	8,700*	36.4	328.8	9,300*			
215	27.1	299.5	8,600*	34.1	321.5	9,100*			
220	24.0	288.7	8,400*	31.7	313.6	8,900*			
225	20.5	276.1	8,300*	29.1	304.8	8,700*			
230	16.2	260.4	8,200*	26.2	295.0	8,600*			
235	10.3	237.9	8,000*	23.0	283.7	8,400*			
240				19.3	270.3	8,300*			
245				14.7	253.1	8,200*			
250				7.4	225.8	8,000*			



193.6 ft

170 ft

60 ft

	87°			83°		
	ft	°	ft	lb	ft	lb
80	74.9	423.4	13,300*			
85	73.6	421.9	13,100*			
90	72.3	420.3	12,900*			
95	71.0	418.6	12,800*			
100	69.6	416.7	12,600*			
105	68.3	414.8	12,400*			
110	67.0	412.6	12,200*	70.6	416.7	12,500*
115	65.6	410.4	12,000*	69.2	414.8	12,300*
120	64.2	408.0	11,900*	67.9	412.8	12,100*
125	62.8	405.4	11,700*	66.5	410.6	12,000*
130	61.4	402.7	11,500*	65.2	408.3	11,800*
135	60.0	399.8	11,400*	63.8	405.8	11,700*
140	58.5	396.7	11,200*	62.4	403.2	11,500*
145	57.0	393.5	11,100*	61.0	400.5	11,400*
150	55.5	390.1	10,900*	59.5	397.5	11,200*
155	54.0	386.5	10,800*	58.1	394.4	11,100*
160	52.5	382.6	10,700*	56.6	391.1	11,000*
165	50.9	378.6	10,500*	55.1	387.6	10,800*
170	49.2	374.3	10,300*	53.5	384.0	10,700*
175	47.5	369.7	10,000*	52.0	380.1	10,600*
180	45.8	364.9	9,800*	50.3	375.9	10,500*
185	44.0	359.8	9,500*	48.7	371.6	10,200*
190	42.2	354.3	9,300*	47.0	366.9	10,000*
195	40.3	348.5	9,100*	45.3	362.0	9,700*
200	38.3	342.2	8,900*	43.5	356.8	9,500*
205	36.2	335.5	8,700*	41.6	351.2	9,300*
210	34.0	328.2	8,600*	39.7	345.2	9,100*
215	31.7	320.3	8,400*	37.7	338.9	8,900*
220	29.2	311.5	8,300*	35.6	332.0	8,700*
225	26.5	301.8	8,100*	33.3	324.5	8,600*
230	23.5	290.8	8,000*	31.0	316.3	8,400*
235	20.0	277.8	7,900*	28.4	307.3	8,200*
240	15.9	261.7	7,800*	25.6	297.2	8,100*
245	10.0	238.8	7,700*	22.5	285.6	8,000*
250				18.9	271.9	7,900*
255				14.3	254.4	7,800*
260				7.3	226.3	7,700*