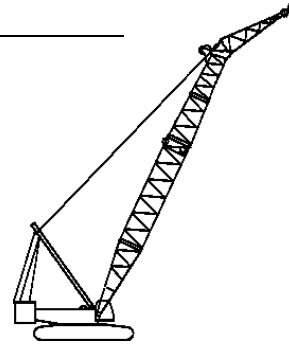


Liftcrane Boom Extended Upper Point Capacities



**Boom No. 58WA with 24.9 ft Extended
Upper Boom Point
332,000 lb Crane Counterweight
120,000 lb Carbody Counterweight
360 Degree Rating**



**16000
SERIES 3**



LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*).

Upper boom point (upper sheave) capacity for liftcrane service with single part whip line is 30,000 lb or 60,000 lb with two part line. In all cases, upper boom point capacities cannot exceed those listed for extended upper boom point (lower sheave) capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath upper boom point sheaves, is considered part of extended upper boom point load. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate in a level position on a firm uniformly supporting surface. Refer to boom rigging **No. 81009833**, Wire Rope Specification chart **No. 8889-A**, Counterweight Arrangement chart **No. 8682-A** and Wind Conditions chart **No. 8688-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to Operator's Manual for operating guidelines.

MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface and boom within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8890-A**



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



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




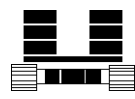
EXTENDED UPPER BOOM POINT ELEVATION: Extended upper boom point elevation is vertical distance from ground level to centerline of extended upper boom point (lower sheave) shaft.

MACHINE EQUIPMENT: Machine equipped with 34 ft crawlers, 60 in. treads, 32 ft live mast, 26 part boom hoist reeving, boom support straps, 332,000 lb crane counterweight and two 30,000 lb carbody counterweights.


WITH OR WITHOUT BOOM CATWALKS	
Maximum Boom Length Lifted Unassisted	
Over End of Blocked Crawlers	Over Side of Crawlers
Boom Length	Boom Length
282.2 ft	262.5 ft
Load block, hook and weight ball on ground until combined weights are within rated capacity of chart.	


Explanation of Symbols


58WA  Boom No. 58WA with 24.9 ft
Extended Upper Boom Point


 Crane Counterweight
+
Carbody Counterweight


 360°
360 Degree Rating


 Operating Radius
(see page 1)

 Boom Angle
(see page 1)

 Extended Upper Boom
Point Elevation
(see page 1)

 Lifting Capacities
(see page 1)

 Boom Length

 Extended Upper Boom
Point Offset Angle

REFERENCE ONLY!

16000 S-3

ASME B30.5



332,000 lb
+
120,000 lb



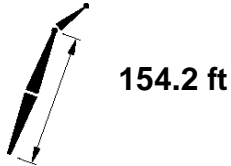
	28°			35°			
	ft	ft	lb	ft	lb	ft	
40	82.1	173.5	286,600 *				40
45	80.3	172.3	286,600 *				45
50	78.6	171.0	286,600 *				50
55	76.8	169.5	271,100				55
60	75.0	167.9	239,200	75.8	166.9	240,800	60
65	73.2	166.1	213,400	74.0	165.1	214,700	65
70	71.4	164.1	192,000	72.1	163.1	193,200	70
75	69.5	161.9	174,000	70.2	160.9	175,100	75
80	67.6	159.5	158,700	68.3	158.5	159,600	80
85	65.7	156.9	145,400	66.4	155.9	146,300	85
90	63.7	154.1	133,900	64.4	153.1	134,700	90
95	61.7	151.1	123,700	62.4	150.0	124,400	95
100	59.7	147.8	114,700	60.4	146.7	115,400	100
105	57.6	144.2	106,600	58.3	143.1	107,200	105
110	55.5	140.4	99,400	56.1	139.2	99,900	110
115	53.3	136.2	92,900	53.9	135.0	93,300	115
120	51.0	131.7	86,900	51.6	130.5	87,300	120
125	48.6	126.9	81,500	49.2	125.6	81,900	125
130	46.1	121.6	76,500	46.7	120.2	76,800	130
135	43.5	115.7	71,900	44.0	114.3	72,200	135
140	40.8	109.4	67,600	41.2	107.9	67,900	140
145	37.8	102.3	63,700	38.2	100.6	63,900	145
150	34.6	94.3	60,000				150
155	31.1	85.2	56,500				155

16000 S-3

ASME B30.5



332,000 lb
+
120,000 lb



ft	28°			35°			ft
	ft	ft	lb	ft	ft	lb	
40	82.5	183.5	286,600 *				40
45	80.9	182.4	286,600 *				45
50	79.2	181.2	286,600 *				50
55	77.5	179.8	270,700				55
60	75.9	178.2	238,800	76.6	177.3	240,300	60
65	74.2	176.5	212,800	74.9	175.6	214,200	65
70	72.4	174.7	191,400	73.2	173.7	192,700	70
75	70.7	172.6	173,400	71.4	171.6	174,500	75
80	68.9	170.4	158,000	69.6	169.4	159,000	80
85	67.2	168.0	144,700	67.8	167.0	145,700	85
90	65.3	165.4	133,200	66.0	164.3	134,000	90
95	63.5	162.5	123,000	64.2	161.5	123,800	95
100	61.6	159.5	114,000	62.3	158.4	114,700	100
105	59.7	156.2	105,900	60.3	155.1	106,500	105
110	57.7	152.7	98,600	58.4	151.6	99,200	110
115	55.7	148.9	92,100	56.3	147.8	92,600	115
120	53.6	144.9	86,100	54.2	143.7	86,600	120
125	51.5	140.5	80,700	52.1	139.2	81,100	125
130	49.3	135.7	75,700	49.8	134.5	76,100	130
135	47.0	130.6	71,100	47.5	129.3	71,500	135
140	44.6	125.1	66,900	45.1	123.7	67,200	140
145	42.0	119.0	62,900	42.5	117.5	63,200	145
150	39.4	112.3	59,300	39.8	110.7	59,500	150
155	36.5	104.9	55,800	36.9	103.2	56,000	155
160	33.4	96.6	52,600				160
165	29.9	87.2	49,600				165

16000 S-3

ASME B30.5



332,000 lb
+
120,000 lb



164.0 ft

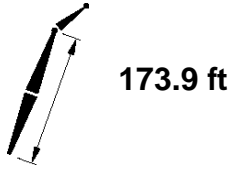
	28°			35°			
	ft	ft	lb	ft	ft	lb	
40	82.9	193.5	286,600 *				40
45	81.4	192.5	286,600 *				45
50	79.8	191.3	286,600 *				50
55	78.2	190.0	270,600				55
60	76.6	188.5	238,600	77.3	187.6	240,200	60
65	75.0	186.9	212,700	75.7	186.0	214,100	65
70	73.4	185.2	191,200	74.1	184.2	192,500	70
75	71.8	183.3	173,200	72.5	182.3	174,300	75
80	70.1	181.2	157,800	70.8	180.2	158,900	80
85	68.5	178.9	144,500	69.1	177.9	145,500	85
90	66.8	176.5	133,000	67.4	175.4	133,800	90
95	65.0	173.8	122,800	65.7	172.8	123,600	95
100	63.3	171.0	113,700	63.9	169.9	114,500	100
105	61.5	168.0	105,700	62.1	166.9	106,400	105
110	59.7	164.7	98,400	60.3	163.6	99,100	110
115	57.8	161.2	91,900	58.4	160.1	92,500	115
120	55.9	157.5	85,900	56.5	156.3	86,500	120
125	54.0	153.5	80,500	54.5	152.3	81,000	125
130	52.0	149.2	75,500	52.5	148.0	76,000	130
135	49.9	144.6	70,900	50.4	143.3	71,300	135
140	47.7	139.6	66,700	48.2	138.3	67,100	140
145	45.5	134.2	62,800	46.0	132.9	63,100	145
150	43.2	128.4	59,100	43.6	127.0	59,400	150
155	40.7	122.1	55,700	41.1	120.6	56,000	155
160	38.1	115.2	52,500	38.5	113.5	52,700	160
165	35.3	107.5	49,500	35.6	105.7	49,700	165
170	32.3	98.9	46,700				170
175	28.9	89.0	44,000				175

16000 S-3

ASME B30.5



332,000 lb
+
120,000 lb



ft	28°			35°			ft
	ft	ft	lb	ft	ft	lb	
45	81.8	202.5	286,600 *				45
50	80.3	201.4	286,600 *				50
55	78.8	200.2	270,200				55
60	77.3	198.8	238,100	78.0	197.8	239,800	60
65	75.8	197.3	212,100	76.5	196.3	213,600	65
70	74.3	195.6	190,600	74.9	194.6	192,000	70
75	72.7	193.8	172,500	73.4	192.8	173,800	75
80	71.2	191.8	157,100	71.8	190.8	158,200	80
85	69.6	189.7	143,800	70.2	188.7	144,800	85
90	68.0	187.4	132,200	68.6	186.4	133,100	90
95	66.4	184.9	122,000	67.0	183.9	122,900	95
100	64.8	182.3	113,000	65.4	181.2	113,700	100
105	63.1	179.5	104,900	63.7	178.4	105,600	105
110	61.4	176.4	97,600	62.0	175.3	98,300	110
115	59.7	173.2	91,100	60.2	172.1	91,700	115
120	57.9	169.7	85,100	58.5	168.6	85,700	120
125	56.1	166.0	79,700	56.7	164.9	80,200	125
130	54.3	162.1	74,700	54.8	160.9	75,200	130
135	52.4	157.9	70,100	52.9	156.6	70,500	135
140	50.4	153.4	65,900	50.9	152.1	66,300	140
145	48.4	148.5	62,000	48.9	147.2	62,300	145
150	46.3	143.3	58,300	46.8	142.0	58,600	150
155	44.1	137.7	54,900	44.6	136.3	55,200	155
160	41.9	131.7	51,700	42.3	130.2	52,000	160
165	39.5	125.1	48,700	39.9	123.5	48,900	165
170	36.9	117.9	45,900	37.3	116.2	46,100	170
175	34.2	109.9	43,300				175
180	31.2	101.0	40,700				180

16000 S-3

ASME B30.5



332,000 lb
+
120,000 lb



183.7 ft

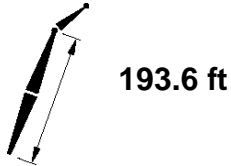
	28°			35°			
	ft	ft	lb	ft	ft	lb	
45	82.2	212.5	286,600 *				45
50	80.8	211.5	286,600 *				50
55	79.4	210.3	269,900				55
60	77.9	209.0	237,700	78.6	208.0	239,500	60
65	76.5	207.6	211,700	77.1	206.6	213,200	65
70	75.1	206.0	190,200	75.7	205.0	191,500	70
75	73.6	204.3	172,000	74.2	203.3	173,300	75
80	72.1	202.4	156,600	72.7	201.4	157,700	80
85	70.6	200.4	143,300	71.2	199.4	144,300	85
90	69.1	198.2	131,700	69.7	197.2	132,600	90
95	67.6	195.9	121,500	68.2	194.9	122,300	95
100	66.1	193.4	112,400	66.6	192.4	113,200	100
105	64.5	190.8	104,300	65.1	189.7	105,100	105
110	62.9	187.9	97,000	63.5	186.8	97,700	110
115	61.3	184.9	90,500	61.9	183.8	91,100	115
120	59.7	181.7	84,500	60.2	180.5	85,100	120
125	58.0	178.2	79,100	58.5	177.1	79,600	125
130	56.3	174.6	74,100	56.8	173.4	74,600	130
135	54.5	170.7	69,500	55.0	169.5	70,000	135
140	52.7	166.5	65,300	53.2	165.3	65,700	140
145	50.9	162.1	61,400	51.4	160.9	61,800	145
150	49.0	157.4	57,700	49.5	156.1	58,100	150
155	47.0	152.4	54,300	47.5	151.0	54,600	155
160	45.0	146.9	51,200	45.4	145.5	51,400	160
165	42.9	141.1	48,200	43.3	139.6	48,400	165
170	40.7	134.8	45,400	41.0	133.3	45,600	170
175	38.3	128.0	42,700	38.7	126.4	42,900	175
180	35.9	120.5	40,200	36.2	118.8	40,400	180
185	33.2	112.3	37,900				185
190	30.3	103.1	35,600				190

16000 S-3

ASME B30.5



332,000 lb
+
120,000 lb



ft	28°			35°			ft
	ft	ft	lb	ft	ft	lb	
45	82.5	222.5	286,600 *				45
50	81.2	221.5	286,600 *				50
55	79.9	220.4	269,400				55
60	78.5	219.2	237,200	79.1	218.2	239,000	60
65	77.1	217.8	211,100	77.7	216.8	212,700	65
70	75.8	216.3	189,500	76.4	215.3	191,000	70
75	74.4	214.7	171,400	75.0	213.7	172,700	75
80	73.0	212.9	155,900	73.6	211.9	157,100	80
85	71.6	211.0	142,500	72.1	210.0	143,600	85
90	70.1	208.9	130,900	70.7	207.9	131,900	90
95	68.7	206.8	120,700	69.3	205.7	121,600	95
100	67.2	204.4	111,600	67.8	203.3	112,400	100
105	65.8	201.9	103,500	66.3	200.8	104,300	105
110	64.3	199.2	96,200	64.8	198.1	96,900	110
115	62.8	196.4	89,600	63.3	195.3	90,300	115
120	61.2	193.4	83,700	61.7	192.2	84,300	120
125	59.7	190.1	78,200	60.2	189.0	78,800	125
130	58.1	186.7	73,200	58.6	185.6	73,800	130
135	56.4	183.1	68,600	56.9	181.9	69,100	135
140	54.8	179.3	64,400	55.3	178.1	64,900	140
145	53.1	175.2	60,500	53.5	174.0	60,900	145
150	51.3	170.9	56,800	51.8	169.6	57,200	150
155	49.5	166.2	53,400	50.0	164.9	53,800	155
160	47.7	161.3	50,300	48.1	160.0	50,600	160
165	45.8	156.1	47,300	46.2	154.7	47,600	165
170	43.8	150.4	44,500	44.2	149.0	44,800	170
175	41.7	144.4	41,900	42.1	142.9	42,100	175
180	39.6	137.9	39,400	39.9	136.3	39,600	180
185	37.3	130.8	37,000	37.6	129.1	37,200	185
190	34.9	123.1	34,800	35.1	121.3	34,900	190
195	32.3	114.6	32,700				195
200	29.4	105.1	30,600				200

16000 S-3

ASME B30.5



332,000 lb
+
120,000 lb



203.4 ft

	28°			35°			
	ft	ft	lb	ft	ft	lb	
45	82.9	232.5	286,600 *				45
50	81.6	231.6	286,600 *				50
55	80.3	230.5	269,200				55
60	79.0	229.3	236,900	79.6	228.3	238,800	60
65	77.7	228.0	210,800	78.3	227.0	212,400	65
70	76.4	226.6	189,200	77.0	225.6	190,600	70
75	75.1	225.0	171,000	75.6	224.0	172,300	75
80	73.7	223.3	155,500	74.3	222.3	156,700	80
85	72.4	221.5	142,200	73.0	220.5	143,300	85
90	71.0	219.6	130,500	71.6	218.6	131,500	90
95	69.7	217.5	120,300	70.2	216.5	121,200	95
100	68.3	215.3	111,200	68.8	214.2	112,100	100
105	66.9	212.9	103,100	67.4	211.8	103,900	105
110	65.5	210.4	95,800	66.0	209.3	96,500	110
115	64.1	207.7	89,200	64.6	206.6	89,900	115
120	62.6	204.8	83,200	63.1	203.7	83,900	120
125	61.1	201.8	77,800	61.6	200.7	78,400	125
130	59.6	198.6	72,800	60.1	197.5	73,400	130
135	58.1	195.2	68,200	58.6	194.1	68,700	135
140	56.6	191.6	64,000	57.0	190.5	64,500	140
145	55.0	187.8	60,100	55.5	186.6	60,500	145
150	53.4	183.8	56,400	53.8	182.6	56,800	150
155	51.7	179.6	53,000	52.2	178.3	53,400	155
160	50.0	175.0	49,900	50.4	173.7	50,200	160
165	48.3	170.2	46,900	48.7	168.9	47,200	165
170	46.5	165.1	44,100	46.9	163.7	44,400	170
175	44.6	159.7	41,500	45.0	158.2	41,800	175
180	42.7	153.8	39,000	43.0	152.3	39,300	180
185	40.6	147.6	36,700	41.0	146.0	36,900	185
190	38.5	140.8	34,500	38.8	139.2	34,600	190
195	36.3	133.5	32,400	36.6	131.8	32,500	195
200	33.9	125.6	30,300				200
205	31.4	116.8	28,400				205
210	28.6	107.0	26,600				210

16000 S-3

ASME B30.5



332,000 lb
+
120,000 lb

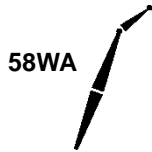


213.2 ft

	28°			35°			
	ft	ft	lb	ft	lb	ft	
50	81.9	241.6	286,600 *	82.5	240.6	286,600 *	50
55	80.7	240.6	268,700	81.3	239.6	270,900	55
60	79.5	239.4	236,400	80.0	238.5	238,300	60
65	78.2	238.2	210,200	78.8	237.2	211,900	65
70	77.0	236.8	188,500	77.5	235.8	190,100	70
75	75.7	235.3	170,300	76.3	234.3	171,700	75
80	74.4	233.7	154,800	75.0	232.7	156,100	80
85	73.2	232.0	141,400	73.7	231.0	142,600	85
90	71.9	230.1	129,700	72.4	229.1	130,800	90
95	70.6	228.2	119,500	71.1	227.1	120,500	95
100	69.3	226.0	110,400	69.8	225.0	111,300	100
105	67.9	223.8	102,200	68.5	222.7	103,100	105
110	66.6	221.4	94,900	67.1	220.3	95,700	110
115	65.2	218.8	88,300	65.7	217.8	89,100	115
120	63.9	216.2	82,400	64.4	215.1	83,000	120
125	62.5	213.3	76,900	63.0	212.2	77,500	125
130	61.1	210.3	71,900	61.6	209.2	72,500	130
135	59.6	207.1	67,300	60.1	205.9	67,900	135
140	58.2	203.7	63,100	58.6	202.6	63,600	140
145	56.7	200.2	59,100	57.2	199.0	59,600	145
150	55.2	196.4	55,500	55.6	195.2	55,900	150
155	53.6	192.4	52,100	54.1	191.2	52,500	155
160	52.1	188.2	48,900	52.5	187.0	49,300	160
165	50.5	183.8	46,000	50.9	182.5	46,300	165
170	48.8	179.1	43,200	49.2	177.7	43,500	170
175	47.1	174.1	40,600	47.5	172.7	40,900	175
180	45.3	168.8	38,100	45.7	167.4	38,400	180
185	43.5	163.1	35,800	43.9	161.7	36,000	185
190	41.6	157.1	33,500	41.9	155.6	33,800	190
195	39.6	150.7	31,500	39.9	149.0	31,600	195
200	37.6	143.7	29,500	37.8	142.0	29,600	200
205	35.4	136.2	27,600	35.6	134.4	27,700	205
210	33.1	128.0	25,700				210
215	30.6	118.9	24,000				215

16000 S-3

ASME B30.5



332,000 lb
+
120,000 lb



223.1 ft

	28°			35°			
	ft	ft	lb	ft	lb	ft	
50	82.3	251.6	286,600 *	82.8	250.6	286,600 *	50
55	81.1	250.6	268,300	81.6	249.6	270,500	55
60	79.9	249.5	235,900	80.4	248.5	237,900	60
65	78.7	248.3	209,700	79.3	247.3	211,400	65
70	77.5	247.0	188,000	78.0	246.0	189,600	70
75	76.3	245.6	169,800	76.8	244.6	171,200	75
80	75.1	244.1	154,200	75.6	243.1	155,500	80
85	73.9	242.4	140,800	74.4	241.4	142,000	85
90	72.6	240.6	129,100	73.2	239.6	130,200	90
95	71.4	238.8	118,800	71.9	237.7	119,800	95
100	70.1	236.7	109,700	70.7	235.7	110,700	100
105	68.9	234.6	101,600	69.4	233.5	102,400	105
110	67.6	232.3	94,300	68.1	231.2	95,100	110
115	66.3	229.9	87,700	66.8	228.8	88,400	115
120	65.0	227.3	81,700	65.5	226.2	82,400	120
125	63.7	224.6	76,200	64.2	223.5	76,900	125
130	62.4	221.8	71,200	62.8	220.6	71,800	130
135	61.0	218.8	66,600	61.5	217.6	67,200	135
140	59.6	215.6	62,400	60.1	214.4	62,900	140
145	58.2	212.2	58,400	58.7	211.0	58,900	145
150	56.8	208.7	54,800	57.2	207.5	55,300	150
155	55.4	205.0	51,400	55.8	203.7	51,800	155
160	53.9	201.0	48,200	54.3	199.8	48,600	160
165	52.4	196.9	45,200	52.8	195.6	45,600	165
170	50.8	192.5	42,500	51.2	191.2	42,800	170
175	49.3	187.9	39,800	49.7	186.6	40,200	175
180	47.6	183.0	37,400	48.0	181.7	37,700	180
185	46.0	177.9	35,000	46.3	176.4	35,300	185
190	44.3	172.4	32,800	44.6	170.9	33,100	190
195	42.5	166.5	30,800	42.8	165.0	31,000	195
200	40.6	160.3	28,800	40.9	158.7	29,000	200
205	38.7	153.7	26,900	39.0	152.0	27,100	205
210	36.7	146.5	25,100	36.9	144.7	25,200	210
215	34.5	138.7	23,400				215
220	32.2	130.3	21,700				220
225	29.8	121.0	20,100				225

16000 S-3

ASME B30.5



332,000 lb
+
120,000 lb



ft	28°			35°			ft
	ft	ft	lb	ft	ft	lb	
50	82.6	261.6	286,600 *	82.0	259.7	270,100	50
55	81.4	260.7	267,800	80.8	258.6	237,300	55
60	80.3	259.6	235,200	79.7	257.5	210,700	60
65	79.2	258.5	208,900	78.5	256.2	188,800	65
70	78.0	257.2	187,100	77.4	254.8	170,300	70
75	76.8	255.8	168,800	76.2	253.4	154,600	75
80	75.7	254.4	153,200	75.0	251.8	141,000	80
85	74.5	252.8	139,700	73.8	250.1	129,200	85
90	73.3	251.1	128,000	72.6	248.2	118,800	90
95	72.1	249.3	117,700	71.4	246.3	109,500	95
100	71.0	247.3	108,500	70.2	244.2	101,300	100
105	69.7	245.3	100,400	69.0	242.1	93,900	105
110	68.5	243.1	93,000	67.8	239.7	87,200	110
115	67.3	240.8	86,400	66.5	237.3	81,200	115
120	66.1	238.4	80,400	65.3	234.7	75,600	120
125	64.8	235.8	74,900	64.0	232.0	70,600	125
130	63.5	233.1	69,900	62.7	229.1	65,900	130
135	62.2	230.2	65,300	61.4	226.1	61,600	135
140	60.9	227.2	61,000	60.1	222.9	57,600	140
145	59.6	224.0	57,100	58.7	219.5	54,000	145
150	58.3	220.7	53,400	57.3	216.0	50,500	150
155	56.9	217.2	50,000	55.9	212.3	47,300	155
160	55.5	213.5	46,900	54.5	208.4	44,300	160
165	54.1	209.6	43,900	53.1	204.3	41,500	165
170	52.7	205.5	41,100	51.6	199.9	38,800	170
175	51.2	201.2	38,500	50.1	195.4	36,300	175
180	49.7	196.7	36,000	48.5	190.6	34,000	180
185	48.2	191.9	33,700	46.9	185.5	31,700	185
190	46.6	186.9	31,500	45.3	180.1	29,600	190
195	44.9	181.5	29,400	43.6	174.4	27,600	195
200	43.3	175.9	27,400	41.8	168.3	25,700	200
205	41.5	169.8	25,500	40.0	161.8	23,900	205
210	39.7	163.4	23,700	38.1	154.9	22,100	210
215	37.8	156.6	22,000	36.1	147.4	20,500	215
220	35.8	149.2	20,300				220
225	33.7	141.2	18,800				225
230	31.5	132.5	17,200				230
235	29.1	123.0	15,800				235

16000 S-3

ASME B30.5



332,000 lb
+
120,000 lb



242.8 ft

ft	28°			35°			ft
	ft	ft	lb	ft	ft	lb	
50	82.8	271.6	286,600 *	82.3	269.7	269,800	50
55	81.8	270.7	267,400	81.2	268.7	237,000	55
60	80.7	269.7	234,900	80.1	267.6	210,400	60
65	79.6	268.6	208,500	79.0	266.3	188,400	65
70	78.5	267.4	186,700	77.8	265.0	169,900	70
75	77.3	266.0	168,400	76.7	263.6	154,100	75
80	76.2	264.6	152,700	75.6	262.1	140,600	80
85	75.1	263.1	139,300	74.5	260.5	128,700	85
90	74.0	261.5	127,500	73.3	258.7	118,300	90
95	72.8	259.8	117,200	72.2	256.9	109,100	95
100	71.7	257.9	108,000	71.0	254.9	100,800	100
105	70.5	255.9	99,900	69.8	252.8	93,400	105
110	69.4	253.9	92,500	68.7	250.6	86,700	110
115	68.2	251.7	85,900	67.5	248.2	80,700	115
120	67.0	249.3	79,900	66.3	245.8	75,100	120
125	65.8	246.9	74,400	65.0	243.2	70,000	125
130	64.6	244.3	69,400	63.8	240.4	65,400	130
135	63.4	241.6	64,700	62.6	237.6	61,100	135
140	62.1	238.7	60,500	61.3	234.5	57,100	140
145	60.9	235.7	56,500	60.0	231.4	53,400	145
150	59.6	232.5	52,900	58.7	228.0	50,000	150
155	58.3	229.2	49,500	57.4	224.5	46,800	155
160	57.0	225.7	46,300	56.1	220.8	43,800	160
165	55.7	222.1	43,300	54.7	217.0	40,900	165
170	54.3	218.2	40,500	53.3	212.9	38,300	170
175	53.0	214.2	37,900	51.9	208.6	35,800	175
180	51.5	209.9	35,400	50.5	204.1	33,400	180
185	50.1	205.5	33,100	49.0	199.4	31,200	185
190	48.6	200.8	30,900	47.5	194.4	29,100	190
195	47.1	195.8	28,800	45.9	189.2	27,100	195
200	45.6	190.6	26,800	44.3	183.6	25,200	200
205	44.0	185.1	25,000	42.6	177.7	23,400	205
210	42.3	179.3	23,200	40.9	171.5	21,600	210
215	40.6	173.1	21,500	39.1	164.8	20,000	215
220	38.8	166.5	19,800	37.2	157.7	18,400	220
225	37.0	159.4	18,300	35.2	150.0	16,900	225
230	35.0	151.8	16,800				230
235	33.0	143.6	15,300				235
240	30.8	134.7	13,900				240
245	28.4	124.9	12,600				245

16000 S-3

ASME B30.5



332,000 lb
+
120,000 lb



ft	28°			35°			ft
	ft	ft	lb	ft	ft	lb	
55	82.1	280.7	267,000	82.5	279.7	269,400	55
60	81.0	279.7	234,400	81.5	278.7	236,500	60
65	79.9	278.6	207,900	80.4	277.6	209,900	65
70	78.9	277.5	186,100	79.4	276.5	187,800	70
75	77.8	276.2	167,700	78.3	275.2	169,300	75
80	76.7	274.9	152,000	77.2	273.8	153,500	80
85	75.7	273.4	138,500	76.1	272.4	139,900	85
90	74.6	271.8	126,700	75.0	270.8	128,000	90
95	73.5	270.2	116,400	73.9	269.1	117,500	95
100	72.4	268.4	107,200	72.8	267.4	108,300	100
105	71.3	266.5	99,000	71.7	265.5	100,000	105
110	70.2	264.5	91,700	70.6	263.5	92,600	110
115	69.0	262.4	85,000	69.5	261.3	85,900	115
120	67.9	260.2	79,000	68.3	259.1	79,800	120
125	66.7	257.8	73,500	67.2	256.7	74,200	125
130	65.6	255.4	68,400	66.0	254.3	69,200	130
135	64.4	252.8	63,800	64.8	251.6	64,500	135
140	63.2	250.0	59,500	63.7	248.9	60,200	140
145	62.0	247.2	55,600	62.5	246.0	56,200	145
150	60.8	244.2	51,900	61.2	243.0	52,500	150
155	59.6	241.0	48,500	60.0	239.8	49,000	155
160	58.4	237.7	45,300	58.8	236.5	45,800	160
165	57.1	234.2	42,400	57.5	233.0	42,800	165
170	55.8	230.6	39,600	56.2	229.4	40,000	170
175	54.5	226.8	36,900	54.9	225.5	37,300	175
180	53.2	222.8	34,500	53.6	221.5	34,800	180
185	51.8	218.6	32,100	52.2	217.3	32,500	185
190	50.5	214.2	29,900	50.8	212.9	30,300	190
195	49.1	209.6	27,800	49.4	208.2	28,100	195
200	47.6	204.7	25,900	47.9	203.4	26,100	200
205	46.1	199.6	24,000	46.5	198.2	24,200	205
210	44.6	194.3	22,200	44.9	192.8	22,400	210
215	43.0	188.6	20,500	43.3	187.1	20,700	215
220	41.4	182.6	18,800	41.7	181.0	19,000	220
225	39.7	176.2	17,300	40.0	174.6	17,500	225
230	38.0	169.4	15,800	38.2	167.7	15,900	230
235	36.2	162.2	14,300	36.4	160.4	14,500	235
240	34.3	154.4	13,000				240
245	32.2	146.0	11,600				245
250	30.1	136.9	10,400				250

16000 S-3

ASME B30.5



332,000 lb
+
120,000 lb



262.5 ft

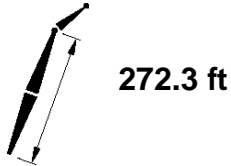
	28°			35°			
	ft	ft	lb	ft	ft	lb	
55	82.3	290.7	266,600	82.8	289.7	269,100	55
60	81.3	289.7	233,900	81.8	288.7	236,100	60
65	80.3	288.7	207,400	80.8	287.7	209,400	65
70	79.3	287.6	185,500	79.7	286.6	187,300	70
75	78.2	286.4	167,100	78.7	285.4	168,700	75
80	77.2	285.1	151,400	77.7	284.0	152,900	80
85	76.2	283.7	137,900	76.6	282.6	139,200	85
90	75.1	282.2	126,100	75.6	281.1	127,300	90
95	74.1	280.6	115,700	74.5	279.5	116,900	95
100	73.0	278.8	106,500	73.5	277.8	107,600	100
105	71.9	277.0	98,300	72.4	276.0	99,300	105
110	70.9	275.1	90,900	71.3	274.1	91,900	110
115	69.8	273.1	84,300	70.2	272.0	85,200	115
120	68.7	271.0	78,200	69.1	269.9	79,100	120
125	67.6	268.7	72,700	68.0	267.6	73,500	125
130	66.5	266.3	67,700	66.9	265.2	68,400	130
135	65.4	263.9	63,000	65.8	262.7	63,700	135
140	64.3	261.2	58,800	64.7	260.1	59,400	140
145	63.1	258.5	54,800	63.5	257.4	55,400	145
150	62.0	255.6	51,100	62.4	254.5	51,700	150
155	60.8	252.6	47,700	61.2	251.5	48,300	155
160	59.6	249.5	44,500	60.0	248.3	45,100	160
165	58.4	246.2	41,600	58.8	245.0	42,000	165
170	57.2	242.7	38,800	57.6	241.5	39,200	170
175	56.0	239.1	36,100	56.3	237.9	36,600	175
180	54.7	235.4	33,700	55.1	234.1	34,100	180
185	53.4	231.4	31,300	53.8	230.1	31,700	185
190	52.1	227.3	29,100	52.5	226.0	29,500	190
195	50.8	222.9	27,000	51.1	221.6	27,400	195
200	49.5	218.4	25,100	49.8	217.0	25,400	200
205	48.1	213.6	23,200	48.4	212.2	23,500	205
210	46.7	208.6	21,400	47.0	207.2	21,700	210
215	45.2	203.4	19,700	45.5	201.9	19,900	215
220	43.7	197.8	18,000	44.0	196.3	18,300	220
225	42.2	192.0	16,500	42.4	190.4	16,700	225
230	40.6	185.8	15,000	40.8	184.2	15,200	230
235	38.9	179.3	13,600	39.2	177.6	13,700	235
240	37.2	172.3	12,200	37.4	170.6	12,400	240
245	35.4	164.9	10,900	35.6	163.0	11,000	245

16000 S-3

ASME B30.5



332,000 lb
+
120,000 lb



ft	28°			35°			ft
	ft	ft	lb	ft	ft	lb	
55	82.6	300.7	266,100	82.1	298.7	235,600	55
60	81.6	299.7	233,300	81.1	297.7	208,800	60
65	80.6	298.8	206,800	80.1	296.7	186,700	65
70	79.6	297.7	184,800	79.1	295.5	168,100	70
75	78.6	296.5	166,400	78.1	294.2	152,200	75
80	77.6	295.2	150,600	77.1	292.9	138,500	80
85	76.6	293.9	137,100	76.1	291.4	126,600	85
90	75.6	292.4	125,200	75.1	289.9	116,100	90
95	74.6	290.9	114,800	74.0	288.2	106,800	95
100	73.6	289.2	105,600	73.0	286.5	98,500	100
105	72.6	287.5	97,400	72.0	284.6	91,000	105
110	71.5	285.7	90,000	70.9	282.6	84,300	110
115	70.5	283.7	83,400	69.9	280.6	78,200	115
120	69.5	281.7	77,300	68.8	278.4	72,600	120
125	68.4	279.5	71,800	67.7	276.1	67,500	125
130	67.3	277.2	66,700	66.7	273.7	62,800	130
135	66.3	274.8	62,100	65.6	271.2	58,500	135
140	65.2	272.3	57,800	64.5	268.6	54,500	140
145	64.1	269.7	53,800	63.4	265.8	50,800	145
150	63.0	267.0	50,200	62.3	263.0	47,300	150
155	61.9	264.1	46,700	61.1	259.9	44,100	155
160	60.7	261.1	43,500	60.0	256.8	41,100	160
165	59.6	258.0	40,600	58.8	253.5	38,200	165
170	58.4	254.7	37,800	57.6	250.0	35,600	170
175	57.3	251.2	35,100	56.4	246.4	33,100	175
180	56.1	247.7	32,600	55.2	242.7	30,700	180
185	54.9	243.9	30,300	54.0	238.7	28,500	185
190	53.6	240.0	28,100	52.7	234.6	26,400	190
195	52.4	235.9	26,000	51.5	230.3	24,400	195
200	51.1	231.6	24,000	50.1	225.8	22,500	200
205	49.8	227.2	22,100	48.8	221.1	20,700	205
210	48.5	222.5	20,400	47.4	216.2	18,900	210
215	47.1	217.6	18,600	46.0	211.0	17,300	215
220	45.8	212.4	17,000	44.6	205.5	15,700	220
225	44.3	207.0	15,500	43.1	199.8	14,200	225
230	42.9	201.3	14,000	41.6	193.7	12,800	230
235	41.3	195.3	12,600	40.0	187.3	11,400	235
240	39.8	189.0	11,200	38.4	180.5	10,000	240
245							245

16000 S-3

ASME B30.5



332,000 lb
+
120,000 lb



282.1 ft

	28°			35°			
	ft	ft	lb	ft	ft	lb	
55	82.8	310.6	265,700				55
60	81.9	309.8	232,900	82.3	308.7	235,200	60
65	80.9	308.8	206,300	81.4	307.8	208,400	65
70	80.0	307.8	184,300	80.4	306.7	186,200	70
75	79.0	306.6	165,800	79.4	305.6	167,600	75
80	78.0	305.4	150,100	78.5	304.4	151,700	80
85	77.1	304.1	136,500	77.5	303.1	138,000	85
90	76.1	302.7	124,700	76.5	301.7	126,000	90
95	75.1	301.2	114,300	75.6	300.2	115,500	95
100	74.1	299.6	105,000	74.6	298.6	106,200	100
105	73.2	297.9	96,800	73.6	296.9	97,900	105
110	72.2	296.2	89,400	72.6	295.1	90,400	110
115	71.2	294.3	82,700	71.6	293.2	83,700	115
120	70.2	292.3	76,700	70.6	291.2	77,600	120
125	69.1	290.2	71,200	69.5	289.1	72,000	125
130	68.1	288.0	66,100	68.5	286.9	66,900	130
135	67.1	285.7	61,400	67.5	284.6	62,200	135
140	66.1	283.3	57,200	66.4	282.2	57,900	140
145	65.0	280.8	53,200	65.4	279.7	53,900	145
150	63.9	278.2	49,500	64.3	277.1	50,200	150
155	62.9	275.4	46,100	63.3	274.3	46,700	155
160	61.8	272.6	42,900	62.2	271.4	43,500	160
165	60.7	269.6	39,900	61.1	268.4	40,400	165
170	59.6	266.4	37,100	60.0	265.3	37,600	170
175	58.5	263.2	34,500	58.8	262.0	35,000	175
180	57.3	259.7	32,000	57.7	258.5	32,500	180
185	56.2	256.2	29,700	56.5	255.0	30,100	185
190	55.0	252.5	27,500	55.4	251.2	27,900	190
195	53.8	248.6	25,400	54.2	247.3	25,700	195
200	52.6	244.5	23,400	53.0	243.3	23,700	200
205	51.4	240.3	21,500	51.7	239.0	21,800	205
210	50.2	235.9	19,700	50.5	234.6	20,000	210
215	48.9	231.3	18,000	49.2	229.9	18,300	215
220	47.6	226.5	16,400	47.9	225.1	16,700	220
225	46.3	221.4	14,800	46.5	220.0	15,100	225
230	44.9	216.1	13,300	45.2	214.6	13,600	230
235	43.5	210.5	11,900	43.8	209.0	12,100	235
240	42.1	204.7	10,600	42.3	203.1	10,800	240